

# Degrees and Certificates



# DEGREES & CERTIFICATES

## Associate of Arts Oregon Transfer Degree (AAOT)

### Overview

The College offers four degrees, the Oregon Transfer Module and a variety of certificate programs of study. Students are encouraged to review and carefully consider which degree or certificate will help them reach their educational goals. The following degrees, based on a prescribed program of study, are awarded by the college:

- Associate of Arts – Oregon Transfer (AAOT)
- Associate of Science (AS)
- Associate of General Studies (AGS)
- Associate of Applied Science (AAS)

Degrees generally may be completed within a two-year period, provided that the student enters with college-level skills in writing, reading and mathematics. Classes are available for students who need additional preparation.

Students wishing to transfer are encouraged to follow these steps: Contact the four-year college or university selected for transfer to check current entrance requirements and suggested freshman and sophomore courses in the chosen major field.

Make an educational plan with the help of a TVCC advisor, matching coursework at TVCC with coursework required at the transfer institution. Check with the transfer institution early in the second year to make sure all requirements are being met. Check deadlines for admission, and complete admission within those deadlines.

Transfer students and students returning to TVCC after a five year absence may be required to complete the requirements of the programs listed in the current catalog in the year they transfer/return to TVCC.

NOTE: New students or first time freshman seeking a certificate or two year degree are required to complete HDEV 112 (Orientation to College) with a grade of "C" or better. Exceptions include transfer students with 15 or more credits, students taking a program focused orientation class such as Agriculture or Natural Resources, or students who are required to complete HDEV 120 (College Survival and Success) based on COMPASS score. See advisor for more information.

### Foreign Language Requirement

*TVCC does not have a foreign language requirement, however, the four-year public universities in Oregon require two years of study of the same foreign language in high school or two terms of study at the college level for admittance (exceptions may be made by the four-year university). This applies to students graduating high school after June, 1997.*

*The four-year public Oregon universities also require proficiency in one foreign language in order for students to graduate with a Bachelor of Arts degree. See the four-year university for specific requirements and ways to meet them. Students who wish to transfer are encouraged to meet their foreign language requirement at TVCC.*

### Associate of Arts Oregon Transfer Degree (AAOT)

**NOTE: The AAOT is in the process of revision. The revised AAOT will go into effect for new students Fall 2010.**

The Associate of Arts Oregon Transfer Degree (AAOT) is designed for students who want to earn a two-year degree in order to transfer to a four-year college or university. The first two years of college work are accomplished at the community college level, transfer as a block, and are accepted as meeting the freshman and sophomore requirements at all public Oregon universities. This degree enables the student to meet all lower division general education requirements and attain junior standing for registration purposes. It does not guarantee that the student will gain entrance with junior standing into the student's desired major area. Class standing, GPA requirements, or required courses for specific majors are not necessarily satisfied by the AAOT degree. If a student transfers before completing the AAOT degree, coursework will be evaluated by the four-year school on a course-by-course basis.



This degree has also been approved for transfer by the Idaho Board of Education to all public Idaho colleges and universities. This degree is also excellent preparation for transfer to many private and out-of-state colleges and universities.

Students are advised to plan well in advance of transfer for specific prerequisite and pre-major course requirements. Students should develop an educational plan, working closely with their TVCC advisor as well as an advisor at the four-year college or university selected for transfer.

### AAOT DEGREE REQUIREMENTS

Students must complete a minimum of 90 quarter credits in courses numbered 100 or above with a grade point average of at least 2.0 in order to graduate with an AAOT degree. Students must also earn a grade of "C" or better in each foundation skills course. At least 24 credits must be earned at TVCC. Credits must satisfy requirements listed below.

### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must earn a grade of "C" or better in each foundation skills course.

- Writing Skills (9 Credits)
  - WR 121, WR 122
  - WR 123 or WR 227
- Oral Communications (3 credits)

- SP 111 or SP 112 or SP 219
- Mathematics (4 credits)
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite

### DISTRIBUTION REQUIREMENTS (45 CREDITS)

Students will select credits from three areas of study:

- Arts and Letters..... 15 Credits
- Social Science ..... 15 Credits
- Science/Math/Computer Science..... 15 Credits

Eligible courses for distribution requirements are listed on page 30 & 31. These courses may also be used to satisfy requirements for a discipline emphasis, where applicable. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

### ARTS & LETTERS (15 CREDITS)

A minimum of fifteen credits, chosen from the following two lists in at least three disciplines. Nine credits must be taken from list B.

- List A (performance or activity-based classes)
  - ART 131, 132, 133, 253, 254, 255, 261, 262, 265
  - SP 111, 112, 219
  - TA 111, 112, 113, 141, 142, 143
- List B (lecture-based theory classes)
  - ART 101, 115, 204, 205, 206
  - ENG 104, 105, 106, 107, 108, 109, 195, 201, 202, 203, 204, 205, 206, 253, 254, 255, 260
  - HUMN 148, 149, 150
  - MUS 101, 111, 112, 113, 201, 202, 203, 205, 211, 212, 213
  - PHIL 101
  - R 201
  - SPAN 201, 202, 203
  - TA 100
  - WR 241, 242, 243

### SOCIAL SCIENCES (15 CREDITS)

A minimum of fifteen credits, chosen from the following list in at least two disciplines, with no more than nine credits from one discipline.

- ANTH 110
- CJ 100, 120, 201, 222, 220, 223
- ECON 201, 202, 203
- ETHN 101, 102, 103
- GEOG 105
- HIST 101, 102, 103, 201, 202, 203
- POSC 201, 202, 203
- PSYC 201, 202, 203, 235, 236, 237
- R 201
- SOC 204, 205, 206

### SCIENCE/MATH/COMPUTER SCIENCE (15 CREDITS)

A minimum of fifteen credits chosen from the following list, including at least twelve credits in biological or physical sciences, labs, and chosen from at least two disciplines. *Lab sciences are indicated by an asterisk (\*).*

- BIOL 101\*, 102\*, 103\*, 107\*, 211\*, 212\*, 213\*, 231\*, 232\*, 233\*, 234\*
- CHEM 104\*, 105\*, 106\*, 121\*, 122\*, 123\*, 221\*, 222\*, 223\*
- CS 133, 233
- FNUT 225
- GEOG 101
- GEOL 201\*, 202\*, 203\*
- GSCI 104\*, 105\*, 106\*, 107\*, 108\*, 110\*

- MATH 105, 111, 112, 113, 211, 212, 213, 243, 244, 251, 252, 253
- PHYS 201\*, 202\*, 203\*, 211\*, 212\*, 213\*

### DIVERSITY REQUIREMENT

One course, selected from the following list, meets the diversity requirement. The course selected for the diversity requirement may also be used to full distribution requirements, where applicable.

- ANTH 110
- ART 101, 204, 205, 206
- ENG 107, 108, 109, 260
- ETHN 101, 102, 103
- HUMN 149, 150, 151
- GEOG 105
- R 101
- SOC 205
- SPAN 101, 102, 103, 201, 202, 203

### AAOT ELECTIVE COURSES (TO TOTAL 90 CREDITS)

Electives may be selected from the distribution list or other lower division transfer courses. Elective credit might be used to satisfy a discipline emphasis. Note: Courses used to fulfill Foundation Skills requirements may not be used as electives.

No more than 12 professional-technical credits, 12 physical activity, 12 applied performance credits, and 12 cooperative-work experience credits may be applied toward the AAOT degree. Special Studies or independent studies numbered 198, 199, 298, or 299 may be taken as electives but will not satisfy foundation skills or distribution requirements. It is recommended that students limit these types of credits to a maximum of twelve, inclusive of all areas listed.

## Oregon Transfer Module (OTM)

The Oregon Transfer Module comprises the first year of general education coursework leading directly to an AAOT degree or into a baccalaureate degree from any public Oregon college or university. Students will advance to sophomore standing upon completion of the OTM.

A minimum of 45 credits in classes numbered 100 or above with a grade point average of at least 2.0 are required to earn the OTM. Credits must be selected from the requirements listed below



# DEGREES & CERTIFICATES

## Associate of General Studies Degree (AGS)

### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS)

Students must earn a grade of "C" or better in each foundation skills course.

- Writing Skills (6 Credits)
  - WR 121, WR 122
- Oral Communications (3 credits)
  - SP 111 or SP 112 or SP 219
- Mathematics (4 credits)
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite

### DISTRIBUTION REQUIREMENTS (30 CREDITS)

Students will select three courses from each of three areas of study: Arts and Letters, Social Science, and Science/Math/Computer Science. Eligible courses are listed on page 30 & 31. These courses may also be used to satisfy requirements for a discipline emphasis, where applicable. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

### ELECTIVES (TO BRING TOTAL TO 45 CREDITS)

Courses must be selected from Arts and Letters, Social Science, and Science/Math/Computer Science distribution courses.

## Associate of Science Degree (AS)

This degree is a planned sequence of courses designed to meet lower division requirements in specific programs at receiving institutions in Oregon and Idaho. Completion of this degree does not guarantee that all lower division requirements have been met. Students are advised to plan well in advance of transfer for specific prerequisite and pre-major course requirements. Students should develop an educational plan, working closely with their TVCC advisor as well as an advisor at the four-year university selected for transfer.

This degree is also excellent preparation for transfer to many private and out-of-state colleges and universities.

### AS DEGREE REQUIREMENTS

Students must complete a minimum of 90 quarter credits in courses numbered 100 or above with a grade point average of at least 2.0 in order to graduate with an AS degree. Students must also earn a grade of "C" or better in each foundation skills course. At least 24 credits must be earned at TVCC. Credits must satisfy requirements listed below;

### FOUNDATION SKILLS REQUIREMENTS

NOTE: See specific Associate of Science degrees for exact course requirements.

Students must earn a grade of "C" or better in each foundation skills course.

- Writing Skills (6 Credits)
  - WR 121, WR 122
- Oral Communications (3 credits)
  - SP 111 or SP 112 or SP 219
- Mathematics (4 credits)
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite

### DISTRIBUTION REQUIREMENTS

NOTE: See specific Associate of Science degrees for exact course requirements.

Students will select credits from three areas of study Arts and Letters, Social Science, and Science/Math/Computer Science. Eligible courses are listed below. These courses may also be used to satisfy requirements for a major emphasis, where applicable.

- Arts and Letters (9 credits, must be a sequence)
  - Any Literature (ENG prefix)
  - Music and Its Literature
  - History of Western Art
  - Introduction to Humanities
  - Survey of Theatre Arts
- Social Science (9 credits, minimum of two subject areas)
  - History
  - General Psychology
  - Principles of Economics
  - General Sociology
  - American Government
  - Ethnic Studies
- Science (12 credits, must be a sequence)
  - Any Life or Physical Science with a Lab
  - Check with an advisor for options

### DIVERSITY REQUIREMENT

One course, selected from the following list, meets the diversity requirement. The course selected for the diversity requirement may also be used to full distribution requirements, where applicable.

- ANTH 110
- ART 101, 204, 205, 206
- ENG 107, 108, 109, 260
- ETHN 101, 102, 103
- HUMN 149, 150, 151
- GEOG 105
- R 101
- SOC 205
- SPAN 101, 102, 103, 201, 202, 203

### DEPARTMENT REQUIREMENTS

Students are referred to their chosen program of study, where specific courses that fulfill departmental requirements are identified.

### ELECTIVE COURSES

Electives may be selected from the distribution list or other academic courses. Note: Courses used to fulfill foundation skills requirements may not be used as electives. Special Studies or independent studies numbered 198, 199, 298, or 299 may be taken as electives but will not satisfy foundation skills or distribution requirements.



## Associate of General Studies Degree (AGS)

The Associate of General Studies degree allows students to tailor a degree program to their own academic, professional or personal goals. This degree, which may include lower division college-level and professional-technical courses, is not designed specifically for transfer, although a number of courses may transfer depending on evaluation by the receiving four year college. With careful planning, students may also use this degree as a basis for tailoring transfer coursework to a program at a specific out-of-state or private four-year college. If students wish to transfer with this degree, they are advised to plan well in advance. Students should develop an educational plan, working closely with their TVCC advisor as well as an advisor at the four-year college or university selected for transfer.

### AGS DEGREE REQUIREMENTS

Students must complete a minimum of 90 quarter credits in courses numbered 100 or above with a grade point average of at least 2.0 in order to graduate with an Associate of General Studies degree. Students must also earn a grade of "C" or better in each foundation skills course. At least 24 credits must be earned at TVCC. Credits must satisfy requirements listed below.

### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must earn a grade of "C" or better in each foundation skills course.

- Writing Skills (9 Credits)
  - WR 121, WR 122, WR 123 or 227
- Oral Communications (3 credits)
  - SP 111 or SP 112 or SP 219
- Mathematics (4 credits)
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite

### DISTRIBUTION REQUIREMENTS (36 CREDITS)

Students will select credits from three areas of study Arts and Letters, Social Science, and Science/Math/Computer Science. Eligible course areas are listed below. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- Arts and Letters (12 credits)
  - Fine Arts
  - Language
  - Literature
  - Music
  - Theatre or Humanities (not studio classes)
- Social Science (12 credits)
  - History
  - General Psychology
  - Principles of Economics
  - General Sociology
  - American Government
  - Ethnic Studies
- Science/Math/Computer Science (12 credits, maximum of two courses can be completed in each area.)
  - Any lower division math course above MATH 60
  - Any lower division science course
  - Any lower division computer science course

### DIVERSITY REQUIREMENT

One course, selected from the following list, meets the diversity requirement. The course selected for the diversity requirement may also be used

to full distribution requirements, where applicable.

- ANTH 110
- ART 101, 204, 205, 206
- ENG 107, 108, 109, 260
- ETHN 101, 102, 103
- HUMN 149, 150, 151
- GEOG 105
- SOC 205
- SPAN 101, 102, 103, 201, 202, 203

### ELECTIVES (TO TOTAL 90 CREDITS)

Electives may be selected from any lower division college-level or professional-technical course.

## Associate of Applied Science Degree (AAS)

The Associate of Applied Science degree is designed to prepare students for direct entry into the workforce. The degree also provides a foundation for career advancement, and may, depending on the program of study, prepare students for certification or licensure in their chosen field. This degree combines professional-technical courses with related education in communication, computation and human relations. While this degree is not intended for transfer, some four-year colleges may accept all or part of the courses in the degree. If students wish to transfer with this degree they should develop an educational plan, working closely with their TVCC advisor as well as an advisor at the four-year college or university selected for transfer.

### AAS DEGREE REQUIREMENTS

Students must complete a minimum of 90 quarter credits with a grade point average of at least 2.0 in order to graduate with an AAS degree. Exception: Students may include courses numbered less than 100 if those courses are identified by the department as required under related education. Students must also complete all departmental and related education requirements. At least 24 credits must be earned at TVCC. Credits must satisfy requirements listed below.

### RELATED EDUCATION REQUIREMENTS (credits vary by program)

All programs require specific related education courses from the coursework listed below. Students must complete the specific courses identified in their chosen AAS degree.

- Communication
  - WR 101, WR 121, WR 227, BA 214
- Computation
  - AET 211, BA 104, MATH 60, MATH 70
- Human Relation skills
  - PSYC 101, BA 204, EDUC 246 with EDUC 247, CJ 200 (INED 156 is recommended)

### PROFESSIONAL-TECHNICAL PROGRAM REQUIREMENTS

Credits and requirements for each professional-technical program of study are listed by department.

### Professional-Technical Certificates

#### CERTIFICATES OF COMPLETION

Professional Technical Certificates of Completion are designed to prepare students for relatively quick and direct entry into the workforce. A certificate is awarded for a prescribed professional technical program of study and may be from 12 to 90 credits in length. Most certificates offered by TVCC are three quarters in length or less and may include related instruction in communication, computation and human relations skills. Most certificates are also part of a career pathway that can lead to an Associates of Applied degree.

Students must complete certificate requirements with at least a 2.0 grade average. Practical Nursing graduates must also have a "C" or better in each required class.

#### CAREER PATHWAYS

Pathways assist students interested in transitioning from school to the workforce and back to school, as they continue their education. Career Pathways provide students a track to higher learning through professional and technical certificate, degrees, and skills in high-demand occupations.

Career Pathways offers short-term certificates (12-44 credits) and technical training designed to upgrade skills and increase earning potential. Certificates are designed and developed in partnership with industry and allow students to "step in and out" of their education with no loss of earned credits.

#### OREGON CAREER READINESS CERTIFICATE (CRC)

The Oregon Career Readiness Certificate is an employment credential. The college, in partnership with the Training and Employment Consortium, offers individuals the opportunity to test for the Career Readiness Certificate. This certificate is based on the results of testing for foundational skills in reading for information, applied mathematics and locating information, and it verifies three different skill levels: basic (bronze), proficient (silver), and advanced (gold). For more information call 541-881-8822 ext. 304.

#### INDUSTRY CERTIFICATIONS

A number of the professional technical programs prepare students to test for various industry certifications. Industry certification is recognized by employers as evidence that an individual has demonstrated a skill level that is required or recommended by the industry.



### Articulation Agreements

#### PROGRAM ARTICULATION AGREEMENTS WITH OTHER COMMUNITY COLLEGES

The following certificates and degrees allow students at TVCC to take Pre-requisite and general course requirements at TVCC to prepare for on-line enrollment in specialized program courses at our partner community college. Internships for Pharmacy Technician and Diagnostic Imaging Technician will be arranged at local internship sites. See Student Services for further information.

- Pharmacy Technician Certificate—Central Oregon Community College
- Diagnostic Imaging Technician Associate of Applied Science Degree—Linn Benton Community College
- Wine making Associate of Applied Science Degree—Chemeketa Community College (Pending approval)
- Wine Marketing Associate of Applied Science Degree—Chemeketa Community College (Pending approval)

#### TRANSFER ARTICULATION AGREEMENTS WITH UNIVERSITIES

TVCC has written articulation agreements with a number of universities in order to assist students with seamless transfer. Students may transfer where no written articulation agreement exists between the university and TVCC, but where articulation agreements do exist, ease of transfer and acceptance of credits by the university is significantly increased. TVCC has agreements with the following universities:

- Associate of Arts Oregon Transfer degree (AAOT)—all Oregon and Idaho universities
- Associate of Science Oregon Transfer in Business Administration—all Oregon universities
- Agriculture Associate of Science degrees-Oregon State University
  - Animal Science
  - Agriculture Business
  - Agriculture Resource Economics
  - Crop Science
  - General Agriculture
  - General Agriculture (Teacher Preparation)
  - Soil Science
- Agriculture Associate of Science Degree-University of Idaho
  - Animal Science
  - Agricultural Economics
  - Agriculture Education
  - Agriculture Science and Technology
- Elementary Education—Eastern Oregon University
- Natural Resources Associate of Science Degree—Oregon State University
- Natural Resources Associate of Science Degree—University of Idaho
- Natural Resources Wildlife and Fishery Science Associate of Science Degree—University of Idaho
- Structural Fire Technology—transfer with Associate of Applied Science degree plus specific courses—Eastern Oregon University (pending final approval)

#### OTHER ARTICULATION AGREEMENTS

- Heavy Equipment Operator/Truck Driving training—Heavy Equipment Operator School of Idaho.



### PROGRAM ARTICULATION AGREEMENTS WITH HIGH SCHOOLS (2+2 AGREEMENTS)

TVCC has written agreements with specific Oregon and Idaho high schools to assist high school students with transition to the community college. High School students may take certain classes, specified in the articulation agreement, at their local high school, and those courses will be transcripted as equivalent to a parallel community college course.

- Oregon – Agriculture, Viticulture, Welding
  - Adrian
  - Baker City
  - Burns
  - Burnt River (Unity)
  - Crane
  - Cove
  - Elgin
  - Enterprise
  - Grant Union (John Day)
  - Imbler
  - Jordan Valley
  - Joseph
  - LaGrande
  - Long Creek
  - Monument
  - Nyssa
  - Ontario
  - Pine Eagle (Halfway)
  - Powder Valley
  - Prairie City
  - Union
  - Vale
- Idaho – Agriculture & Welding
  - Cambridge
  - Declo
  - Fruitland
  - Meridian
  - Payette
  - Rexburg
  - Twin Falls
  - Weiser

## Short-Term Training

CONTINUING EDUCATION • EXT. 281/358

The College offers a variety of short-term training programs that prepare students to rapidly gain skills for entry-level employment or acquire upgrade skills. Many of these short-term options also prepare students to pass certifying exams in specific occupational fields.

### ADDICTION STUDIES

This series of nine Human Services classes prepares students for entry-level employment as para-professional counselors in the field of chemical dependency. Students successfully completing these classes are eligible to take a national certifying exam to become a Certified Alcohol and Drug Counselor I (CADC I) in Oregon and ISAS (Idaho Student of Addiction Studies) certified in Idaho. In addition to taking classes and passing the certifying exam, students must complete a supervised practicum. Additional education and supervised internship leads to CADC II. All courses, with the exception of Group Counseling Skills may be taken online.

COURSE #	COURSE TITLE	CREDITS
<b>• Fall Quarter</b>		
- HSER 101	Pharmacology .....	3
- HSER 102	Drug Use, Misuse/Addiction .....	3
<b>• Winter Quarter</b>		
- HSER 202	Counseling Techniques I .....	4
- HSER 228	Screening/Assessing Skills.....	4
<b>• Spring Quarter</b>		
- HSER 224	Group Counseling Skills .....	3
- HSER 226	Ethics for Addictions Counselors. ....	3
<b>• Summer Quarter</b>		
- HSER 248	Infectious Diseases .....	2
- HSER 219	Case Management.....	3
- HSER 280	Practicum Work Experience.....	1-3

Students may earn an Associate of General Studies (AGS) degree with an emphasis on Addiction Studies (see page 30 for AGS requirements). This option is designed for students who wish to sit for the Certified Alcohol and Counselor state entry level exams in either Idaho or Oregon, **but are not pursuing a transfer degree.**

### BASIC OFFICE SKILLS AND COMPUTER TRAINING

This short, intense course prepares students for entry-level employment in an office environment as receptionists, file clerks, inventory clerks, office assistants, customer service representative, data-entry clerks and other general clerical jobs. Students will complete 140 hours of training in basic clerical and computer skills.

### CAREER READINESS CERTIFICATE (CRC)

The Oregon Career Readiness Certificate is an employment credential. The college, in partnership with the Training and Employment Consortium, offers individuals the opportunity to test for the Career Readiness Certificate. This certificate is based on the results of testing for foundational skills in reading for information, applied mathematics and locating information, and it verifies three different skill levels: basic (bronze), proficient (silver), and advanced (gold).

# DEGREES & CERTIFICATES

## Short-Term Training

### **ELECTRICAL APPRENTICESHIP**

Students registered as Licensed Electrical Apprentices with the State of Oregon or State of Idaho, are eligible for electrical apprenticeship classes. Approximately 48 hours of classroom instruction per quarter or 144 hours per year using National Journeyman approved curriculum. Currently offering 1st through 4th year curriculum.

### **FIRST RESPONDER TRAINING**

The First Responder Course emphasizes development of student skills in recognizing the signs and symptoms of various injuries and illnesses and in providing basic life support emergency medical care. The 44-hour course uses the EMS: First Responder Training curriculum developed and approved by the US Dept. of Transportation, National Highway Safety Administration and includes automatic and semi-automatic defibrillation.

### **HOME HEALTHCARE AIDE (HHA)**

This 40-hour course prepares students to work as adult care workers in private homes or nursing homes.

### **NURSING ASSISTANT**

This short term program prepares students to work as nursing assistants in nursing homes and other healthcare facilities. Students successfully completing 155 hours of classroom lecture, lab, and clinical work are eligible to take the Oregon State certifying exam. Certified Nursing Assistant courses are offered at various times throughout the year. For information contact the Nursing Department at ext. 289.

### **WILDLAND FIRE TRAINING FOR INDUSTRY**

These courses are designed to meet the safety and management needs of wildland fire operations. Basic skills classes prepare students for entry-level employment with public and private fire crews. Advanced and specialized classes are available to people currently working in wildland fire crews, allowing them to remain current or upgrade their skills. Course curriculum meets or exceeds the National Wildfire Coordinating Group (NWCG) nationally accepted standards. Note: Many wildland fire classes can be used to obtain an Associate of Applied Science Degree in Wildland Fire Management. See page 107 of catalog for more information.



# Programs of Study



# PROGRAMS OF STUDY

## Agriculture to Education

Associate of Arts Oregon Transfer Degree (A.A.O.T.) with discipline emphasis • Associate of Science Degree (A.S.)  
Associate of Applied Science Degree (A.A.S.) • Certificate (Cert.) • Industry Certifications (I.C.)

PROGRAM	A.A.O.T	A.S.	A.A.S.	CERT.	I.C.	PAGE
AGRICULTURE - AT A GLANCE / CAREER PATHWAYS						41-42
Agriculture Business Technician				X		43
Agriculture Business (OSU)		X				44
Agriculture Economics (Uofl)		X				45
Agriculture Education (Uofl)		X				46
Agriculture Science and Technology (Uofl)		X				47
Animal Science (Uofl)		X				48
Animal Science (OSU)		X				49
Crop Science (OSU)		X				50
General Agriculture (OSU)		X				51
General Agriculture (Teacher Prep) (OSU)		X				52
Ranch Animal Technician				X	X	53
Ranch Management			X			54
Soil Science (OSU)		X			X	55
Viticulture			X			136
ARCHITECTURE (First Year Transfer Coursework)						56
ART	X					57
BIOLOGICAL SCIENCE	X					58
BUSINESS ADMINISTRATION - AT A GLANCE / CAREER PATHWAYS						59-60
Applied Accounting Specialist				X		61
Business Administration		X				62
Business Administration	X					63
Business Administration-Accounting	X					64
Business Management			X			65
Business Management-Accounting			X			66
Retail Management				X		67
CHEMISTRY	X					68
CHIROPRACTIC (PRE)	X					69
COMPUTER INFORMATION SYSTEMS - CAREER PATHWAYS						70
Computer Information Systems				X	X	71
Computer Information Systems			x		X	72
COMPUTER SCIENCE	X					73
CRIMINAL JUSTICE - CAREER PATHWAYS						74
Criminal Justice-Corrections				X		75
Criminal Justice			X			76
Criminal Justice	X					77
DENTAL HYGIENE (PRE)	X					78
DIAGNOSTIC IMAGING			X			79
ECONOMICS	X					80
EDUCATION- AT A GLANCE / CAREER PATHWAYS						81-82
Early Childhood Education				X	X	83
Early Childhood Education			X		X	84

# PROGRAMS OF STUDY

## *Education to Political Science*

Associate of Arts Oregon Transfer Degree (A.A.O.T.) with discipline emphasis • Associate of Science Degree (A.S.)  
Associate of Applied Science Degree (A.A.S.) • Certificate (Cert.) • Industry Certifications (I.C.)

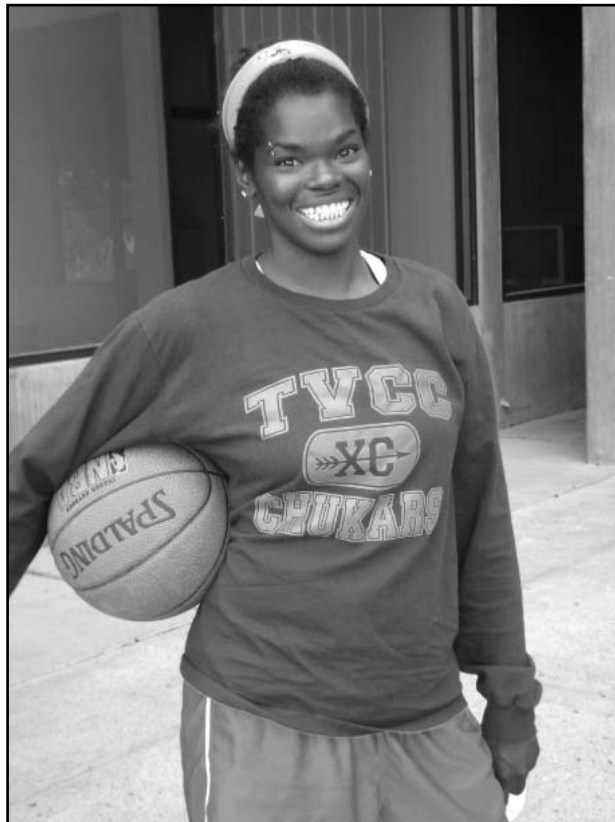
PROGRAM	A.A.O.T	A.S.	A.A.S.	CERT.	I.C.	PAGE
Elementary Education	X					85-86
Instructional/Bilingual Classroom Assistant			X			87
EMERGENCY MEDICAL TECHNICIAN (EMT)				X	X	88
ENGINEERING (PRE)	X					89
ENGLISH	X					90
GEOLOGY	X					91
GEOGRAPHIC INFORMATION SYSTEMS TECHNOLOGY APPLICATIONS			X			92
HEAVY EQUIPMENT OPERATOR					X	92
HISTORY	X					93
HORSE PRODUCTION AND TRAINING			X			94
LAW (PRE - Advising Information)	X					95
MATHEMATICS	X					96
MEDICINE (PRE)	X					97
MUSIC	X					98
NATURAL RESOURCES - AT A GLANCE / CAREER PATHWAYS						99-100
Cartography and Field Mapping Technician				X		101
Natural Resources			X			102
Natural Resources (OSU)	X					103
Natural Resources (Uofl)	X					104
Natural Resources Conservation				X		105
Natural Resources Environmental Technician				X		106
Natural Resources Wildland Fire				X	X	107
Natural Resources Wildland Fire			X		X	108
Natural Resources Wildlife and Fisheries (Uofl)	X					109
HEALTH OCCUPATIONS - CAREER PATHWAYS						110
NURSING - AT A GLANCE / CAREER PATHWAYS						111-112
Practical Nurse				X	X	113
Registered Nurse			X		X	113
Nursing	X					114
OFFICE ADMINISTRATION - AT A GLANCE / CAREER PATHWAYS						115-116
Legal Office			X			117
Medical Office Administration			X			118
Medical Transcription			X			119
Office Administration			X			120
Office Specialist				X		121
PHARMACY						
Pharmacy Technician (Partner with Central Oregon CC)				X		122
Pharmacy (PRE)	X					123
PHYSICAL EDUCATION	X					124
PHYSICAL THERAPY (PRE)	X					125
PHYSICS	X					126
POLITICAL SCIENCE	X					127

# PROGRAMS OF STUDY

## *Veterinary Medicine to Welding Technology*

Associate of Arts Oregon Transfer Degree (A.A.O.T.) with discipline emphasis • Associate of Science Degree (A.S.)  
 Associate of Applied Science Degree (A.A.S.) • Certificate (Cert.) • Industry Certifications (I.C.)

PROGRAM	A.A.O.T	A.S.	A.A.S.	CERT.	I.C.	PAGE
PSYCHOLOGY	X					128
RADIOLOGICAL SCIENCE (First Year Transfer Coursework)						129
SOCIAL WORK	X					130
SOCIOLOGY	X					131
STUCTURAL FIRE SCIENCE - CAREER PATHWAYS						132
Structural Fire Science			X		X	133
THEATRE ARTS	X					134
VETERINARY MEDICINE (PRE)	X					135
VITICULTURE						
Viticulture and Enology			X			136
Wine Making (Partner with Chemeketa CC)			X			137
Wine Marketing (Partner with Chemeketa CC)			X			137
WELDING TECHNOLOGY - CAREER PATHWAYS						138
Welding Technology				X	X	139
Welding Technology			X		X	140

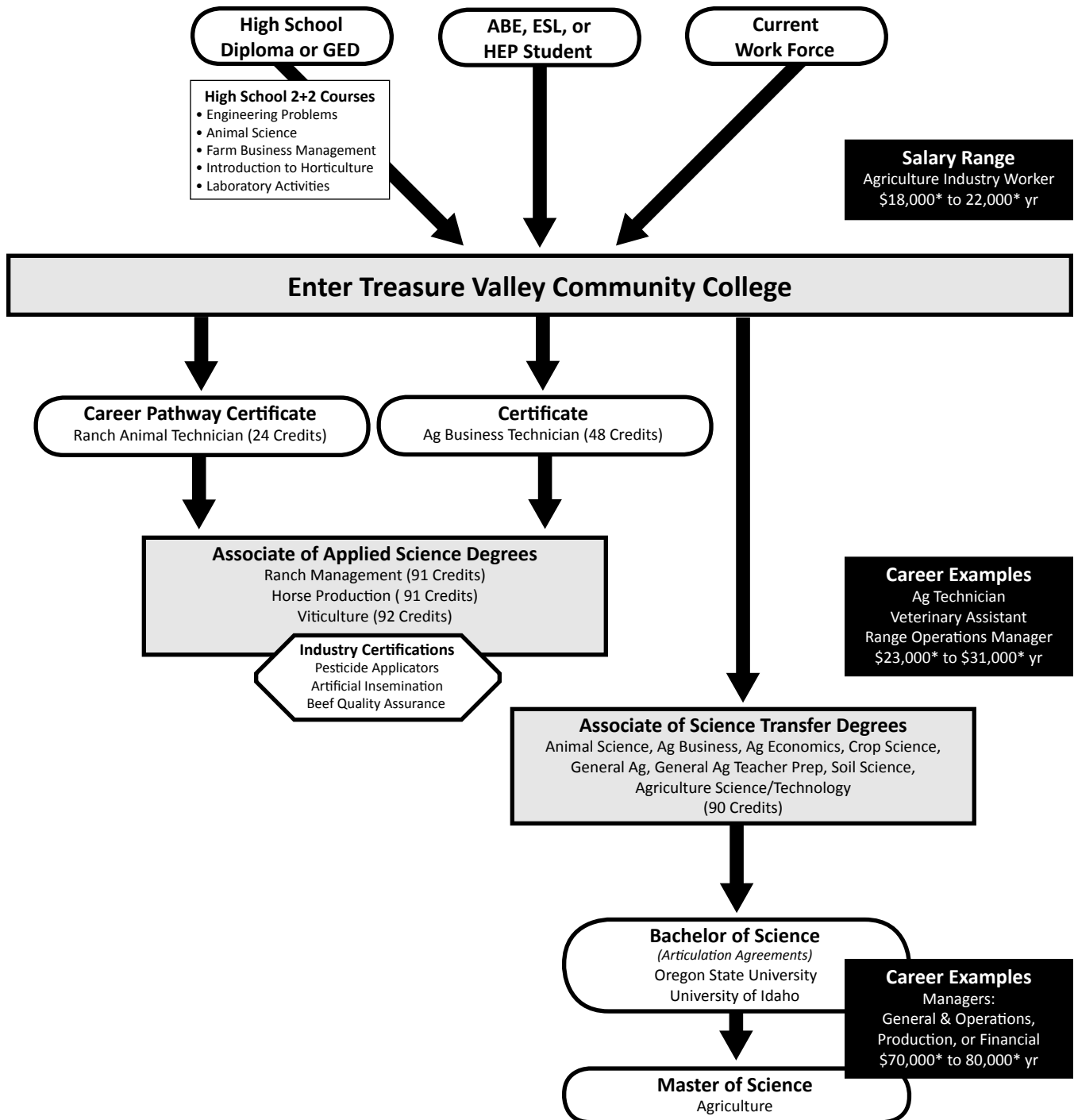




## Agriculture Career Pathway Options

Department: Agriculture

Advising: Roger Findley (ext. 307), Sandra Porter (ext. 306); Sonny Hansen (ext. 305)



\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

# AGRICULTURE BUSINESS TECHNICIAN

## *Certificate of Completion*

### Agriculture Business Technician CERTIFICATE

**Department:** Agriculture  
**Advising:** Roger Findley (ext. 307)

The one-year Agriculture Business Technician Certificate prepares students to enter or advance in the agricultural field as a customer service/sales representative, field technician, or field scout with a focus on the crop and seed industry.

This certificate is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution.** A minimum **grade point average of 2.0** is required to obtain the certificate.

#### DUAL CREDIT (2+2)

Students will receive credit for agriculture classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### LEARNING OUTCOMES

Students who complete the Agriculture Business Technician Certificate of Completion will be prepared to:

- Select and implement an appropriate record keeping system that satisfies state and federal requirements.
- Keep and analyze a record keeping systems to make sound management decisions.
- Identify and use 5 marketing systems for farm and ranch products.
- Develop and implement a ranch or farm conservation plan based on soil series, grazing management and irrigation methods.

#### RELATED EDUCATION REQUIREMENTS (7 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Workplace Communications
- **Computation Skills (3 credits)**
  - AET 211 Engineering Problems
- **Human Relations Skills (1 credit)**
  - INED 156 Employment Strategies

#### REQUIRED COURSES FOR AGRICULTURE BUSINESS TECHNICIAN (41 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- AG 207	Agriculture Seminar .....	1
- AREC 211	Management in Agriculture.....	4
- CSS 205	General Soils .....	3
- HPE 120	First Aid.....	2
- HORT 111	Introduction to Plant Growth .....	3
- AG 111	Agriculture Computers .....	3
<b>• Winter Quarter</b>		
- AREC 210	Farm Business Management .....	3
- AG 215	Irrigation and Drainage .....	4
- CSS 210	Forage Production .....	3
- CSS 215	Soil Nutrients and Fertilizer .....	3
- CSS 217	Pesticide Safety and Use .....	1
<b>• Spring Quarter</b>		
- AREC 221	Marketing in Agriculture.....	3
- CSS 240	Intro to Noxious Weeds .....	3
- CSS 200	Principles of Crop Science.....	4
- AG 201	Current Issues in Agriculture .....	1

**Total Number of Credits in Certificate .....48**

# AGRICULTURE BUSINESS

Associate of Science Transfer Degree to Oregon State University

## Agriculture Business

### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO OREGON STATE UNIVERSITY

**Department:** Agriculture  
**Advising:** Roger Findley (ext. 307)

This degree fulfills the general education block transfer to Oregon State University. A minimum of 96 transfer credits and a minimum **grade point average of 2.0** are needed to graduate. Oregon universities require students graduating high school after 1997 to have either two years high school or two terms college second language at entry.

The following courses are recommended for students interested in pursuing a degree in Agriculture Business at Oregon State University and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at Oregon State University.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses. Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (23 CREDITS)

- **Arts and Letters - Choose one class from each of the following two areas:**
  - **Literature and Arts:**
    - ART 101 Intro to Art
    - ENG 104, 105, 106 Intro to Literature
    - ENG 253, 254, 255 Survey of American Literature
    - MUS 201, 202, 203 Intro to Music & Its Literature
  - **Western Culture:**
    - ENG 253, 254, 255 Survey of American Literature
    - HIST 101, 102, 103 History of Western Civilizations
- **Social Science:**
  - **Social Process: All classes listed are required**
    - ECON 201, 202 Principles of Economics: Micro/Macro
  - **Social Science: Choose one class from this area:**
    - HIST 201, 202, 203 History of the United States
- **Science/Math/Physical Science: All classes listed are required**
  - MATH 243 Intro to Probability & Stats I
  - CHEM 121, 122 General Chemistry

#### RECOMMENDED COURSES FOR AGRICULTURE BUSINESS EMPHASIS (57 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG 207	Agriculture Seminar .....	1
- AG 111	Agriculture Computers .....	3
- ANS 121	Intro to Animal Science .....	3
- ANS 122	Intro to Animal Science Operations .....	1
- AREC 210	Farm Business Management .....	3
• <b>Winter Quarter</b>		
- AREC 211	Management in Agriculture .....	4
- ANS 211	Applied Animal Nutrition .....	3
• <b>Spring Quarter</b>		
- AREC 221	Marketing in Agriculture .....	3
- ANS 210	Feed and Ration Formulation .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 211	Principles of Accounting .....	4
- ANS 216	Beef Pregnancy Testing .....	3
- ANS 278	Principles of Animal Breeding .....	3
- CSS 205	General Soils .....	3
• <b>Winter Quarter</b>		
- BA 212	Principles of Accounting .....	4
- BA 226	Business Law I .....	3
- ANS 215	Beef/Dairy Cattle Production .....	3
• <b>Spring Quarter</b>		
- AREC 201	Agriculture Accounting .....	3
- HPE 295	Health & Fitness for Life .....	3
- AG 201	Current Issues in Agriculture .....	1
- ANS 217	Artificial Insemination .....	3

## Agriculture Economics

### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO UNIVERSITY OF IDAHO

**Department:** Agriculture  
**Advising:** Roger Findley (ext. 307)

This degree fulfills the general education block transfer to University of Idaho. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Agricultural Economics at University of Idaho and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at University of Idaho.

#### FOUNDATION SKILLS REQUIREMENTS (14 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122, English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 95 Intermediate Algebra

#### DISTRIBUTION REQUIREMENTS (37 CREDITS)

- **Arts and Letters - Choose any three classes:**
  - ART 101 Intro to Art
  - MUS 201, 202, 203 Intro to Music & Its Literature
  - ENG 104, 105, 106 Intro to Literature
  - ENG 201, 202, 203 Shakespeare
  - ENG 253, 254, 255 Survey of American Literature
  - HUMN 148, 149, 150 Intro to Humanities
- **Social Science - Choose four classes from:**
  - Economics
  - History
  - Political Science
  - Psychology
  - Sociology
- **Science/Math/Computer Science -All classes listed are required:**
  - BIOL 101, 102 General Biology
  - CHEM 121, 122 General Chemistry

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR AGRICULTURE ECONOMICS EMPHASIS (40 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG 207	Agriculture Seminar .....	1
- AG 111	Agriculture Computers .....	3
- AREC 210	Farm Business Management .....	3
• <b>Winter Quarter</b>		
- AREC 211	Management in Agriculture .....	4
- AG	Any Agriculture Electives .....	3
• <b>Spring Quarter</b>		
- AREC 221	Marketing in Agriculture .....	3
- AG	Any Agriculture Elective .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 211	Principles of Accounting .....	3
- AG	Agriculture Electives .....	3
• <b>Winter Quarter</b>		
- BA 212	Principles of Accounting .....	3
- AG	Any Agriculture Electives .....	4
• <b>Spring Quarter</b>		
- AREC 201	Agriculture Accounting .....	3
- BA 213	Principles of Accounting .....	3
- AG 201	Current Issues in Agriculture .....	1

# AGRICULTURE EDUCATION

Associate of Science Transfer Degree to University of Idaho

## Agriculture Education

### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO UNIVERSITY OF IDAHO

**Department:** Agriculture  
**Advising:** Roger Findley (ext. 307)

This degree fulfills the general education block transfer to University of Idaho. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Agricultural Education at University of Idaho and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at University of Idaho.

#### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 95 Intermediate Algebra

#### DISTRIBUTION REQUIREMENTS (37 CREDITS)

- **Arts and Letters - Choose any three classes:**
  - ART 101 Intro to Art
  - MUS 201, 202, 203 Intro to Music & Its Literature
  - ENG 104, 105, 106 Intro to Literature
  - ENG 201, 202, 203 Shakespeare
  - ENG 253, 254, 255 Survey of American Literature
  - HUMN 148, 149, 150 Intro to Humanities
- **Social Science - Choose four classes from:**
  - Economics
  - History
  - Political
  - Science
  - Psychology
  - Sociology
- **Science - All classes listed are required:**
  - BIOL 211 College Biology
  - CHEM 121, 122 General Chemistry

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR AGRICULTURAL EDUCATION EMPHASIS (44 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG 207	Agriculture Seminar .....	1
- AET 221	Shop Skills .....	3
- ANS	Any Animal Science .....	3
• <b>Winter Quarter</b>		
- AG 212	Engine Theory Operations .....	3
- ANS	Any Animal Science .....	3
• <b>Spring Quarter</b>		
- AG 221	Metals and Welding .....	3
- ANS	Any Animal Science .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG 111	Agriculture Computers .....	3
- AREC	Any Agriculture Economics .....	3
- CSS 205	General Soils .....	3
• <b>Winter Quarter</b>		
- AREC	Any Agriculture Economics .....	3
- CSS	Any Crop Science .....	3
- ANS	Any Animal Science .....	3
• <b>Spring Quarter</b>		
- CSS	Any Crops Elective .....	3
- AREC	Any Agricultural Economics .....	3
- AG 201	Current Issues in Agriculture .....	1

# AGRICULTURE SCIENCE AND TECHNOLOGY

*Associate of Science Transfer Degree to University of Idaho*

## Agriculture Science and Technology

### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO UNIVERSITY OF IDAHO

**Department:** Agriculture  
**Advising:** Roger Findley (ext. 307)

This degree fulfills the general education block transfer to University of Idaho. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Agricultural Science and Technology at University of Idaho and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at University of Idaho.

#### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 95 Intermediate Algebra

#### DISTRIBUTION REQUIREMENTS (33-36 CREDITS)

- **Arts and Letters - Choose any three classes:**
  - ART 101 Intro to Art
  - MUS 201, 202, 203 Intro to Music & Its Literature
  - ENG 104, 105, 106 Intro to Literature
  - ENG 201, 202, 203 Shakespeare
  - ENG 253, 254, 255 Survey of American Literature
  - HUMN 148, 149, 150 Intro to Humanities
- **Social Science - Choose four classes from:**
  - Economics
  - History
  - Political Science
  - Psychology
  - Sociology
- **Science - Complete one series:**
  - BIOL 211, 212, 213 College Biology or
  - CHEM 121, 122, 123 General Chemistry

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR AGRICULTURE SCIENCE AND TECHNOLOGY EMPHASIS (47 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- AG 207	Agriculture Seminar .....	1
- AG 111	Agriculture Computers .....	3
- ANS 121	Intro to Animal Science.....	3
- ANS 122	Intro to Animal Science Operations.....	1
<b>• Winter Quarter</b>		
- AREC 211	Management in Agriculture.....	4
- AG	Any Agriculture Elective .....	3
<b>• Spring Quarter</b>		
- AREC 221	Marketing in Agriculture .....	3
- ANS 217	Artificial Insemination .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- AREC 210	Farm Business Management .....	3
- CSS 205	General Soils .....	3
- ANS 216	Beef Pregnancy Testing .....	3
- ANS 278	Principles of Animal Breeding .....	3
<b>• Winter Quarter</b>		
- ANS 211	Applied Animal Nutrition .....	3
- AG	Any Agriculture Elective.....	3
<b>• Spring Quarter</b>		
- ANS 210	Feed & Ration Formulation .....	3
- CSS 200	Principles of Crop Science .....	4
- AG 201	Current Issues in Agriculture .....	1

# ANIMAL SCIENCE

Associate of Science Transfer Degree to University of Idaho

## Animal Science

### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO UNIVERSITY OF IDAHO

**Department:** Agriculture  
**Advising:** Sandy Porter (ext. 306)

This degree fulfills the general education block transfer to University of Idaho. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Animal Science at University of Idaho and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at University of Idaho.

#### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (34 CREDITS)

- **Arts and Letters - Choose any three classes:**
  - ART 101 Intro to Art
  - MUS 201, 202, 203 Intro to Music & Its Literature
  - ENG 104, 105, 106 Intro to Literature
  - ENG 253, 254, 255 Survey of American Literature
  - HUMN 148, 149, 150 Intro to Humanities
- **Social Science - Choose four classes from:**
  - Economics
  - History
  - Political Science
  - Psychology
  - Sociology
- **Science - All classes listed are required:**
  - BIOL 211 Biology
  - CHEM 121, 122 General Chemistry

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR ANIMAL SCIENCE EMPHASIS (48 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG 207	Agriculture Seminar .....	1
- ANS 121	Intro to Animal Science .....	3
- ANS 122	Intro to Animal Science Operations .....	1
- ANS 216	Beef Pregnancy Testing .....	3
• <b>Winter Quarter</b>		
- ANS 211	Animal Nutrition .....	3
- ANS 215	Beef/Dairy Cattle Production .....	3
- AG 111	Agriculture Computers .....	3
• <b>Spring Quarter</b>		
- ANS 210	Feeds & Ration Formulation .....	3
- ANS 217	Artificial Insemination .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- ANS 231	Intro to Livestock Evaluation .....	2
- ANS 220	Intro to Horse Production .....	3
- ANS 278	Principles of Animal Breeding .....	3
• <b>Winter Quarter</b>		
- AREC 211	Management in Agriculture .....	4
- ANS 201	Beef Quality Assurance .....	2
- ANS 250	Intro to Meat Science .....	3
- ANS 240	Intro to Ultrasound Technology .....	2
• <b>Spring Quarter</b>		
- AREC 221	Marketing in Agriculture .....	3
- AG 201	Current Issues in Agriculture .....	1
- ANS 224	Purebred Herd Improvement .....	2

### Animal Science

#### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO OREGON STATE UNIVERSITY

**Department:** Agriculture  
**Advising:** Sandy Porter (ext. 306)

This degree fulfills many of the general education requirements for transfer to Oregon State University. A minimum of 96 transfer credits and a minimum **grade point average of 2.0** are needed to graduate. Oregon universities require students graduating high school after 1997 to have either two years high school or two terms college second language at entry.

The following courses are recommended for students interested in pursuing a degree in Animal Science at Oregon State University and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at Oregon State University.

#### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (39 CREDITS)

- **Arts and Letters - Choose one class from each of the following two areas:**
  - **Literature and Arts:**
    - ART 101 Intro to Art
    - ENG 104, 105, 106 Intro to Literature
    - ENG 253, 254, 255 Survey of American Literature
    - MUS 201, 202, 203 Intro to Music & Its Literature
  - **Western Culture:**
    - ENG 253, 254, 255 Survey of American Literature
    - HIST 101, 102, 103 History of Western Civilization
    - HIST 201, 202, 203 History of the United States
- **Social Sciences:**
  - **Social Process - All classes listed are required:**
    - ECON 201, 202 Principles of Economics: Micro/Macro
  - **Social Science: Choose one class from this area:**
    - PSYC 201, 202 General Psychology
    - SOC 204, 206 General Sociology
  - **Science/Math/Physical Science - Choose one sequence:**
    - BIOL 101, 102, 103 General Biology or
    - CHEM 121, 122, 123 General Chemistry

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR ANIMAL SCIENCE EMPHASIS (44 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG 207	Agriculture Seminar .....	1
- AG 111	Agriculture Computers .....	3
- ANS 121	Intro to Animal Science .....	3
- ANS 231	Intro to Livestock Evaluation .....	2
- ANS 122	Intro to Animal Science Operations .....	1
• <b>Winter Quarter</b>		
- ANS 211	Applied Animal Nutrition .....	3
- ANS 215	Beef/Dairy Cattle Production .....	3
- ANS 240	Intro to Ultrasound Technology .....	2
• <b>Spring Quarter</b>		
- ANS 210	Feed & Ration Formulation .....	3
- AG	Any Agriculture Elective .....	2

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- ANS 216	Beef Pregnancy Testing .....	3
- ANS 278	Principles of Animal Breeding .....	3
• <b>Winter Quarter</b>		
- ANS 250	Intro to Meat Science .....	3
- ANS 201	Beef Quality Assurance .....	2
• <b>Spring Quarter</b>		
- ANS 217	Artificial Insemination .....	3
- CSS 200	Principles of Crop Science .....	4
- AG 201	Current Issues in Agriculture .....	1
- ANS 224	Purebred Herd Improvement .....	2

# CROP SCIENCE

## Associate of Science Transfer Degree to Oregon State University

### Crop Science

#### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO OREGON STATE UNIVERSITY

**Department:** Agriculture  
**Advising:** Roger Findley (ext. 307)

This degree fulfills the general education block transfer to Oregon State University. A minimum of 96 transfer credits and a minimum **grade point average of 2.0** are needed to graduate. Oregon universities require students graduating high school after 1997 to have either two years high school or two terms college second language at entry.

The following courses are recommended for students interested in pursuing a degree in Crop Science at Oregon State University and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at Oregon State University.

#### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (36 CREDITS)

- **Arts and Letters - Choose one class from each of the following two areas:**
  - **Literature and Arts:**
    - ART 101 Intro to Art
    - ENG 104,105,106 Intro to Literature
    - ENG 253,254,255 Survey of American Literature
    - MUS 201, 202, 203 Music & Its Literature
  - **Western Culture:**
    - ENG 253,254,255 Survey of American Literature
    - HIST 101,102,103 History of Western Civilization
    - HIST 201,202,203 History of the United States
- **Social Sciences - All classes listed are required:**
  - ECON 201,202 Principles of Economics: Micro/Macro
  - PSYC 201, 202 General Psychology
  - SOC 204, 205 General Sociology
- **Science/Math/Physical Science - Choose one sequence:**
  - BIOL 101, 102, 103 College Biology or
  - CHEM 121,122,123 General Chemistry

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### REQUIRED COURSES FOR CROP SCIENCE EMPHASIS (44 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG 207	Agriculture Seminar .....	1
- AG 111	Agriculture Computers .....	3
- AG	Any Agriculture Elective .....	3
• <b>Winter Quarter</b>		
- ANS 211	Applied Animal Nutrition .....	3
- AREC 211	Management in Agriculture .....	4
• <b>Spring Quarter</b>		
- CSS 200	Principles of Crop Science .....	4
- AG	Any Agriculture Elective .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CSS 205	General Soils .....	3
- AG	Any Agriculture Elective .....	3
• <b>Winter Quarter</b>		
- CSS 240	Intro to Noxious Weeds .....	3
- CSS 217	Pesticide Safety and Use .....	1
- CSS 210	Forage Production .....	3
- HPE 120	First Aid & CPR .....	2
• <b>Spring Quarter</b>		
- AG 201	Current Issues in Agriculture .....	1
- HPE 295	Health & Fitness for Life .....	3
- AG	Any Agriculture Elective .....	4

## General Agriculture

### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO OREGON STATE UNIVERSITY

**Department:** Agriculture  
**Advising:** Roger Findley (ext. 307)

This degree fulfills the general education block transfer to Oregon State University. A minimum of 96 transfer credits and a minimum **grade point average of 2.0** are needed to graduate. Oregon universities require students graduating high school after 1997 to have either two years high school or two terms college second language at entry.

The following courses are recommended for students interested in pursuing a degree in General Agriculture at Oregon State University and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at Oregon State University.

#### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 105 Contemporary Mathematics

#### DISTRIBUTION REQUIREMENTS (27 CREDITS)

- **Arts and Letters - Choose one class from each of the following two areas:**
  - **Literature and Arts:**
    - ART 101 Intro to Art
    - ENG 104, 105, 106 Intro to Literature
    - ENG 253, 254, 255 Survey of American Literature
    - MUS 201, 202, 203 Intro to Music & Its Literature
  - **Western Culture:**
    - ENG 253, 254, 255 Survey of American Literature
    - HIST 101, 102, 103 History of Western Civilization
    - HIST 201, 202, 203 History of the United States
- **Social Sciences:**
  - **Social Process - All classes listed are required:**
    - ECON 201, 202 Principles of Economics: Micro/Macro
  - **Social Science: Choose one class from this area:**
    - PSYC 201, 202 General Psychology
    - SOC 204, 206 General Sociology
- **Science/Math/Physical Science - Choose three classes with at least one class from each area:**
  - **Biological Science:**
    - BIOL 101, 102, 103 General Biology
  - **Physical Science:**
    - CHEM 121, 122, 123 General Chemistry
    - GEOL 201, 202 Physical Geology
    - PHYS 201, 202, 203 General Physics

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### COURSES FOR GENERAL AGRICULTURE EMPHASIS (57 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG 207	Agriculture Seminar .....	1
- AG 111	Agriculture Computers .....	3
- AG	Any Agriculture Electives .....	6
- ANS 121	Intro to Animal Science.....	3
- ANS 122	Intro to Animal Science Operations.....	1
• <b>Winter Quarter</b>		
- AREC 211	Management in Agriculture .....	3
- AG	Any Agriculture Electives .....	6
• <b>Spring Quarter</b>		
- AG	Any Agriculture Electives .....	9

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG	Any Agriculture Electives .....	9
• <b>Winter Quarter</b>		
- BA 226	Business Law I .....	3
- HPE 120	First Aid & CPR .....	2
- CSS 217	Pesticide Safety and Use .....	1
- AG	Any Agriculture Elective .....	2
• <b>Spring Quarter</b>		
- HPE 295	Health & Fitness for Life .....	3
- AG 201	Current Issues in Agriculture .....	1
- AG	Any Agriculture Electives .....	4

# GENERAL AGRICULTURE (TEACHER PREP)

Associate of Science Transfer Degree to Oregon State University

## General Agriculture (Teacher Prep)

### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO OREGON STATE UNIVERSITY

**Department:** Agriculture  
**Advising:** Roger Findley (ext. 307)

This degree fulfills the general education block transfer to Oregon State University. A minimum of 96 transfer credits and a minimum **grade point average of 2.0** are needed to graduate. Oregon universities require students graduating high school after 1997 to have either two years high school or two terms college second language at entry.

The following courses are recommended for students interested in pursuing a degree in General Agriculture (Teacher Prep) at Oregon State University and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at Oregon State University.

#### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS):

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech **or**
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 105 Contemporary Mathematics

#### DISTRIBUTION REQUIREMENTS (27 CREDITS)

- **Arts and Letters - Choose one class from each of the following two areas:**
  - **Literature and Arts:**
    - ART 101 Intro to Art
    - ENG 104, 105, 106 Intro to Literature
    - ENG 253, 254, 255 Survey of American Literature
    - MUS 201, 202, 203 Intro to Music & Its Literature
  - **Western Culture:**
    - ENG 253, 254, 255 Survey of American Literature
    - HIST 101, 102, 103 History of Western Civilization
    - HIST 201, 202, 203 History of the United States
- **Social Sciences:**
  - **Social Process - All classes listed are required:**
    - ECON 201, 202 Principles of Economics: Micro/Macro
  - **Social Science: Choose one class from this area:**
    - PSYC 201, 202 General Psychology
    - SOC 204, 206 General Sociology
- **Science/Math/Physical Science - Choose three classes with at least one class from each area:**
  - **Biological Science:**
    - BIOL 101, 102, 103 General Biology

- **Physical Science:**
  - CHEM 121, 122, 123 General Chemistry
  - GEOL 201, 202 Physical Geology
  - PHYS 201, 202, 203 General Physics

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR GENERAL AGRICULTURE-TEACHER PREP EMPHASIS (56 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG 111	Agriculture Computers .....	3
- AG 207	Agriculture Seminar .....	1
- ANS 216	Beef Pregnancy Testing .....	3
- ANS 121	Intro to Animal Science.....	3
- ANS 122	Intro to Animal Science Operations.....	1
• <b>Winter Quarter</b>		
- ANS 211	Applied Animal Nutrition .....	3
- AREC 211	Management in Agriculture .....	4
- AG	Any Agriculture Elective .....	3
• <b>Spring Quarter</b>		
- AREC 221	Marketing in Agriculture .....	3
- AG	Any Agriculture Electives .....	6

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- ANS 200	Livestock Skills .....	3
- CSS 205	General Soils .....	3
- AG	Any Agriculture Elective .....	3
• <b>Winter Quarter</b>		
- AG 212	Engine Theory Operations .....	3
- BA 226	Business Law I .....	3
- AET 211	Engineering Problems.....	3
• <b>Spring Quarter</b>		
- CSS 200	Principles of Crop Science .....	4
- AG 221	Metals and Welding .....	3
- AG 201	Current Issues in Agriculture .....	1

## Ranch Animal Technician CAREER PATHWAY CERTIFICATE

**Department:** Agriculture  
**Advising:** Sandy Porter (ext. 306)

This career pathway certificate prepares students for entry level work as a customer service/sales representative or general ranch worker with focus on the animal science and ranching industry.

All courses in this certificate may be applied to the Ranch Management Associate of Applied Science Degree. A minimum **grade point average of 2.0** is needed to obtain the certificate.

### DUAL CREDIT (2+2)

Students will receive credit for agriculture classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

### LEARNING OUTCOMES

Students who complete the certificate will be prepared to:

- Demonstrate proper use of ten common pieces of livestock handling/care equipment.
- Keep and analyze record keeping system to make sound management decisions.
- Identify and use five successful marketing systems for farm and ranch products.
- Identify and implement livestock breeding program using genetic improvement principles, artificial insemination, and pregnancy testing.
- Develop a feeding program for specific species of livestock satisfying nutrition requirements for appropriate growth phase.

### REQUIRED COURSES FOR RANCH ANIMAL TECHNICIAN (24 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- ANS 121	Intro to Animal Science.....	3
- ANS 122	Intro to Animal Science Operations.....	1
- ANS 216	Beef Pregnancy Testing .....	3
<b>• Winter Quarter</b>		
- ANS 201	Beef Quality Assurance .....	2
- ANS 211	Applied Animal Nutrition .....	3
- ANS 215	Beef/Dairy Cattle Production .....	3
- AG 111	Agriculture Computers .....	3
<b>• Spring Quarter</b>		
- ANS 210	Feed and Ration Formulation .....	3
- ANS 217	Artificial Insemination .....	3

**Total Number of Credits in Certificate .....24**

# RANCH MANAGEMENT

## Associate of Applied Science Degree

### Ranch Management

#### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Agriculture  
**Advising:** Sandy Porter (ext. 306)

#### PROGRAM OVERVIEW

This program prepares students for a wide variety of careers in Ranch Management, including manager of a small ranch, ranch hand, feedlot operator, brand inspector, and artificial inseminator. The program combines theory with practical skills needed for daily cattle operations. Students will learn the foundations of farm business and animal science as well as have hands-on experience working with ranch livestock.

**This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution. A minimum of 90 credits and a minimum grade point average of 2.0 are needed to graduate.**

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, AG 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### DUAL CREDIT (2+2)

Students will receive credit for agriculture classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### LEARNING OUTCOMES

Students who complete the two-year Associate of Applied Science degree program will be prepared to:

- Demonstrate proper use of ten common pieces of livestock handling/care equipment.
- Keep and analyze record keeping system to make sound management decisions.
- Identify and use five successful marketing systems for farm and ranch products.
- Identify and implement livestock breeding program using genetic improvement principles, artificial insemination, and pregnancy testing.
- Develop a feeding program for specific species of livestock satisfying nutrition requirements for appropriate growth phase.
- Select and implement an appropriate record keeping system that satisfies state and federal requirements.
- Develop and implement ranch or farm conservation plan based on soil series, grazing management and irrigation methods.

#### RELATED EDUCATION REQUIREMENTS (10 credits)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Technical Writing
- **Computation Skills (3 credits)**
  - AET 211 Engineering Problems
- **Human Relations Skills (4 credits)**
  - PSYCH 101 Psychology of Human Relationships
  - INED 156 Employment Strategies

#### ELECTIVES (9 CREDITS)

Students should meet with their advisor for a list of suggested electives.

#### REQUIRED COURSES FOR RANCH MANAGEMENT (71 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- ANS 231	Intro to Livestock Evaluation .....	2
- ANS 200	Livestock Skills .....	3
- AET 221	Shop Skills .....	3
- AG 207	Agriculture Seminar .....	1
- ANS 121	Intro to Animal Science .....	3
- ANS 122	Intro to Animal Science Operations .....	1
- ANS 216	Beef Pregnancy Testing .....	3
<b>• Winter Quarter</b>		
- ANS 211	Applied Animal Nutrition .....	3
- ANS 215	Beef/Dairy Cattle Production .....	3
- AG 111	Agriculture Computers .....	3
- ANS 240	Intro to Ultrasound Technology .....	2
- HPE 120	First Aid & CPR .....	2
<b>• Spring Quarter</b>		
- ANS 210	Feed and Ration Formulation .....	3
- ANS 217	Artificial Insemination .....	3
- AREC 221	Marketing in Agriculture .....	3
- AG 280	Work Experience .....	1

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- AREC 210	Farm Business Management .....	3
- ANS 278	Principles of Animal Breeding .....	3
- CSS 205	General Soils .....	3
- AG 280	Work Experience .....	1
<b>• Winter Quarter</b>		
- ANS 250	Intro to Meat Science .....	3
- ANS 201	Beef Quality Assurance .....	2
- AREC 211	Management in Agriculture .....	4
- CSS 210	Forage Production .....	3
- CSS 240	Intro to Noxious Weeds .....	3
<b>• Spring Quarter</b>		
- AG 201	Current Issues in Agriculture .....	1
- AREC 201	Agriculture Accounting .....	3
- AG 280	Work Experience .....	1
- ANS 224	Purebred Herd Improvement .....	2

**Total Number of Credits in Degree .....90**

### Soil Science

#### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO OREGON STATE UNIVERSITY

**Department:** Agriculture  
**Advising:** Roger Findley (ext. 307)

This degree fulfills the general education block transfer to Oregon State University. A minimum of 96 transfer credits and a minimum **grade point average of 2.0** are needed to graduate. Oregon universities require students graduating high school after 1997 to have either two years high school or two terms college second language at entry.

The following courses are recommended for students interested in pursuing a degree in Soil Science at Oregon State University and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at Oregon State University.

#### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech **or**
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (39 CREDITS)

- **Arts and Letters/Social Sciences - Choose one class from each area and two additional classes from different areas for a total of five classes:**
  - **Literature and Arts:**
    - ART 101 Introduction to Visual Arts
    - ENG 104, 105, 106 Intro to Literature
    - ENG 253, 254, 255 Survey of American Literature
    - MUS 201, 202, 203 Intro to Music & Its Literature
  - **Western Culture:**
    - ENG 253, 254, 255 Survey of American Literature
    - HIST 101, 102, 103 History of Western Civilization
    - HIST 201, 202, 203 History of the United States
  - **Social Processes:**
    - ECON 201, 202 Principles of Economics: Micro/Macro
    - PSYC 201, 202 General Psychology
    - SOC 204, 205 General Sociology
- **Science/Math/Computer Science - All classes listed are required:**
  - BIOL 101, 102, 103 General Biology
  - CHEM 121, 122, 123 General Chemistry

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR SOIL SCIENCE EMPHASIS (44 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG 111	Agriculture Computers .....	3
- AG 207	Agriculture Seminar .....	1
- CSS 205	General Soils .....	3
• <b>Winter Quarter</b>		
- CSS 210	Forage Production .....	3
- AG	Any Agriculture Elective .....	3
• <b>Spring Quarter</b>		
- CSS 200	Principles of Crop Science .....	4
- AG	Any Agriculture Elective .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- AG	Any Agriculture Electives .....	6
- NATR 241	Intro to Range Management.....	4
• <b>Winter Quarter</b>		
- CSS 217	Pesticide Safety and Use .....	1
- ANS 211	Applied Animal Nutrition .....	3
- AG	Any Agriculture Elective .....	3
• <b>Spring Quarter</b>		
- AG 201	Current Issues in Agriculture .....	1
- AG	Any Agriculture Electives .....	6

# PRE-ARCHITECTURE

## Recommended First Year College Transfer Coursework

### Pre-Architecture Emphasis

#### RECOMMENDED FIRST YEAR

#### COLLEGE TRANSFER COURSEWORK

**Department:** Fine and Performing Arts

**Department Chair:** Robin Jackson (ext. 270)

**Advising:** Robin Jackson (ext. 270)

The following courses are recommended for students interested in pursuing an Architecture degree at a four-year college or university. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** to identify and contact an advisor at their chosen transfer institution. Computer aided design and drafting courses may also be helpful for the architecture student.

The architecture major requires specialized courses. Students wishing to pursue a degree in architecture should plan on transferring after their freshman year to a four-year institution that has an architecture program.

#### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### RECOMMENDED COURSES FOR PRE-ARCHITECTURE EMPHASIS

The following courses may be used to complete some distribution requirements.

- ART 115 Basic Design
- ART 131, 132, 133 Beginning and Intermediate. Drawing
- HIST 101, 102, 103 History of Western Civilization
- MATH 112 Elementary Functions
- MATH 113 Analytic Geometry/Pre-Calculus
- PHYS 201, 202 General Physics

Students who are calculus-ready are encouraged to take MATH 251, 252, and 253 and calculus-based physics.

## Art Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Fine and Performing Arts

**Department Chair:** Robin Jackson (ext. 270)

**Advising:** Robin Jackson (ext. 270); Ted Fink (ext. 341)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Art at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- Writing Skills (6 credits)
  - WR 121, 122 English Composition
- Oral Communications (3 credits)
  - SP 111 Fundamentals of Speech **or**
  - SP 219 Small Group Discussion
- Mathematics (4 credits)
  - MATH 105 Contemporary Mathematics **or**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some of the recommended Art emphasis courses fulfill a portion of the distribution requirements.

#### RECOMMENDED ELECTIVE FOR ART (3 CREDITS)

- ART 199 Special Studies, selected topics in Ceramics, Photography, Drawing, or Design.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

### RECOMMENDED COURSES FOR ART EMPHASIS

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
- ART 115 *	Basic Design .....	3
- ART 116*	Basic Design .....	3
- ART 117*	Basic Design .....	3
- ART 101*	Intro to Art .....	3
- ART 131*	Beginning Drawing .....	3
- ART 132*	Intermediate Drawing .....	3
- ART 133*	Advanced Drawing .....	3
- ART 261*	Beginning Photography.....	3
- ART 265*	Beginning Digital Photography .....	3

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
- ART 199	Special Studies .....	3
- ART 204*	History of Western Art /Ancient .....	3
- ART 205*	History of Western Art /Renaissance.....	3
- ART 206*	History of Western Art /Modern .....	3
- ART 253*	Ceramics I .....	3
- ART 254*	Ceramics II .....	3
- ART 255*	Ceramics III .....	3
- ART 256*	Ceramics IV (Raku).....	3
- ART 262*	Inter. Photography .....	3
- ART 266*	Inter. Digital Photography .....	3

\* Indicates course is on the distribution list . See page 31 for guidelines.

## Biological Science Emphasis

### BIOLOGY, BOTANY, ZOOLOGY, OR MICROBIOLOGY EMPHASIS

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science

**Department Chair:** Dr. Marie Strunk (ext. 347)

**Advising:** Dr. Marie Strunk (ext. 347); Kerby Winters (ext. 369); Arwyn Larson (ext. 213); Cindy Feibert (ext. 556)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Biology, Botany, Zoology or Microbiology at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Sciences, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some of the recommended Biology emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR BIOLOGY, BOTANY, ZOOLOGY, MICROBIOLOGY EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BIOL 211*	Biology.....	5
- CHEM 221*	College Chemistry.....	5
- MATH 111	College Algebra.....	4
• <b>Winter Quarter</b>		
- BIOL 212*	Biology.....	5
- CHEM 222*	College Chemistry.....	5
- MATH 112*	Elementary Functions.....	4
• <b>Spring Quarter</b>		
- BIOL 213*	Biology.....	5
- CHEM 223*	College Chemistry.....	5
- MATH 113*	Pre-Calculus.....	4

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- MATH 251*	Calculus I.....	5
- PHYS 201*	General Physics.....	4
• <b>Winter Quarter</b>		
- BIOL 234*	Microbiology.....	4
- PHYS 202*	General Physics.....	4
- MATH 252*	Calculus II.....	5
• <b>Spring Quarter</b>		
- PHYS 203*	General Physics.....	4
- MATH 253*	Calculus III.....	5

\* Indicates course is on the distribution list. See page 31 for guidelines.

## Business Administration At A Glance

Students interested in careers in business, management, or accounting can pursue several different educational options, depending on the student's career goals. Students may see a business administration program advisor for assistance in determining the option that best meets the student's needs.

**Advising:** Dr. Wes Tucker (ext. 224); Kent Banner (ext. 229)

### ASSOCIATE OF APPLIED SCIENCE DEGREES AND CERTIFICATES

Students wishing to directly enter the workforce after their educational experience at TVCC should consider either a two year Associate of Applied Science Degree or a one year certificate program. These options are not designed to transfer to four year institution, although some individual courses are transferable. Students wishing to transfer coursework should work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution.

#### ASSOCIATE OF APPLIED SCIENCE DEGREE

*Business Management*

#### CERTIFICATES

*Applied Accounting Specialist*

(All courses apply to the Business Management Accounting Option Associate of Applied Science Degree)

*Retail Management*

(All courses apply to the Business Management Associate of Applied Science Degree)

### TRANSFER DEGREES

#### ASSOCIATE OF SCIENCE DEGREE

The Associate of Science Degree is a block-transfer intended to prepare students for transfer to a baccalaureate business program at an institution in the Oregon University System. On completion students will have met all general education requirements and will have completed core lower-division business courses. The degree guarantees junior standing for registration purposes, but it does not guarantee admittance to a business/school/ program major. Students who transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution.

#### ASSOCIATE OF ARTS OREGON TRANSFER DEGREE

Students interested in pursuing an Associate of Arts degree in Business Administration or Accounting at a four-year college or university are encouraged to complete the requirements for the Associate of Arts Oregon Transfer (AAOT) degree. Upon completion students will have met all lower-division general education requirements and have completed core lower-division business courses at public universities in Oregon and Idaho. The degree guarantees junior standing for registration purposes, but it does not guarantee admission to the business school/program major. Students who wish to transfer are encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution.

#### ASSOCIATE OF ARTS OREGON TRANSFER DEGREES

*Business Administration*

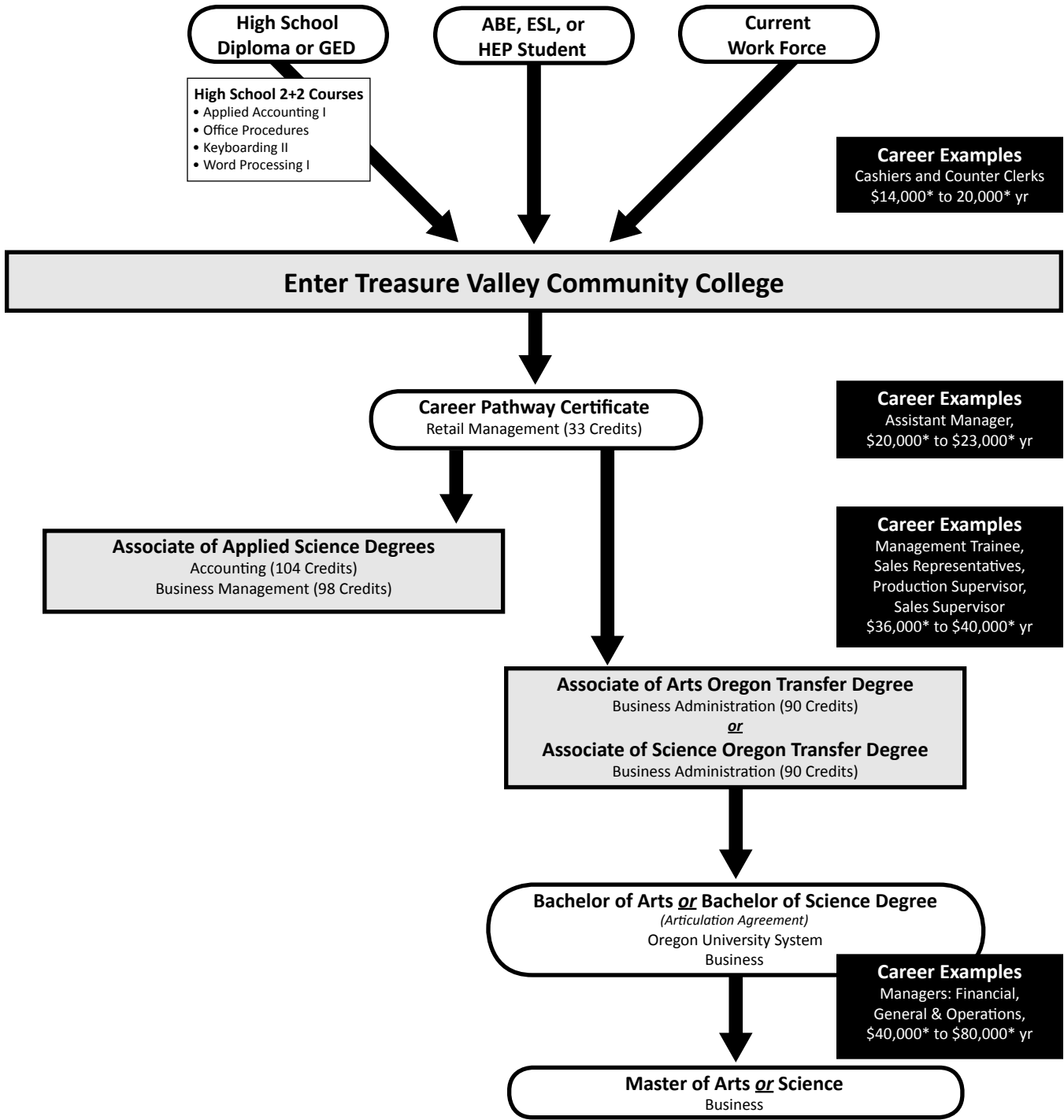
*Business Administration Accounting Emphasis*

### Business Pathway Options

Department: Business

Department Chair: Dr. Wes Tucker (ext. 224)

Advising: Dr. Wes Tucker (ext. 224); Kent Banner (ext. 229)



\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

# APPLIED ACCOUNTING SPECIALIST

## *Certificate of Completion*

## Applied Accounting Specialist CERTIFICATE

**Department:** Business

**Department Chair:** Dr. Wes Tucker (ext. 224)

**Advising:** Dr. Wes Tucker (ext. 224); Kent Banner (ext. 229)

The Applied Accounting Specialist certificate prepares students for a variety of entry-level positions in the accounting field. All courses in this certificate may be applied to the Business Management-Accounting Option Associate of Applied Science degree. A minimum **grade point average of 2.0** is required to obtain the certificate.

### DUAL CREDIT (2+2)

Students will receive credit for business classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

### LEARNING OUTCOMES

Students who complete certificate will be prepared to:

- Compose grammatically correct, well-organized written and oral business presentations.
- Apply appropriate mathematical skills for business problem solving.
- Utilize applied technology to support business functions.
- Listen to and accurately assess responses of customers and coworkers within diverse cultural contexts.
- Apply ethical and legal laws and regulations in solving business problems.

### RELATED EDUCATION REQUIREMENTS (16 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (9 credits)**
  - WR 121 English Composition
  - BA 214 Business Communications
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Computation Skills (4 credits)**
  - BA 104 Business Math
- **Human Relations Skills (3 credit)**
  - BA 204 Teamwork Dynamics

## REQUIRED COURSES FOR APPLIED ACCOUNTING SPECIALIST CERTIFICATE (42 CREDITS\*)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- BA 131	Intro to Business Computing .....	4
- BA 200	Applied Accounting I <u>or</u>	
- BA 211	Principles of Accounting I .....	4
- BA 104	Business Math .....	4
- BA 215	Cost Accounting .....	3
- BA 204	Teamwork Dynamics.....	3
<b>• Winter Quarter</b>		
- CS 125 SS	Spreadsheet Applications .....	4
- BA 201	Applied Accounting II <u>or</u>	
- BA 212	Principles of Accounting II .....	4
- BA 256	Income Tax Procedures .....	3
- BA 228	Computer-Assisted Accounting.....	3
<b>• Spring Quarter</b>		
- BA 214	Business Communications .....	3
- BA 202	Applied Accounting III <u>or</u>	
- BA 213	Principles of Accounting III .....	4
- BA 240	Fund Accounting .....	3
- OA 201	Word Processing I .....	3
<b>• Summer Quarter</b>		
- BA 230	Payroll Accounting .....	3
- BA 236	Computer Accounting II.....	3

\* Does not include Related Education Requirements BA 104, 204, and 214

**Total Number of Credits in Certificate .....58**

### Business Administration ASSOCIATE OF SCIENCE TRANSFER DEGREE

**Department:** Business

**Department Chair:** Dr. Wes Tucker (ext. 224)

**Advising:** Dr. Wes Tucker (ext. 224); Kent Banner (ext. 229)

This is a statewide block-transfer degree intended to prepare students for transfer into a baccalaureate business program at an Oregon University System (OUS) institution. On completion, students will have met all lower-division general education requirements and will have completed core lower-division business courses. The degree guarantees junior standing for registration purposes, but it does not guarantee admission to a business school/program at an OUS campus. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

Oregon universities require students seeking an Associate of Science degree have the equivalent of one year of college-level work in mathematics and each course must be passed with a P (pass) or a C- or better.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses. Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech **or**
  - SP 112 Persuasive Speech **or**
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (36 CREDITS)

Students are referred to page 32 for a list of courses and guidelines that fulfill distribution requirements.

- **Arts and Letters (12 credits)**  
Choose four classes from at least two disciplines.
- **Social Science (12 credits)**
  - ECON 201\*, 202\*, 203\* Principles of Economics
- **Science/Math/Computer Science (12 credits)**
  - Biological or Physical Science with labs

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### AS/OT REQUIREMENTS FOR SPECIFIC COLLEGES

Each OUS school has different requirements for their Business program. Students are **strongly advised to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution early in their program.

#### REQUIRED COURSES FOR BUSINESS ADMINISTRATION

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 101*	Intro to Business .....	4
- BA 131	Intro to Business Computing .....	4
- MATH 111	College Algebra .....	4
• <b>Winter Quarter</b>		
- BA 214	Business Communications .....	3
- BA 226*	Business Law I .....	3
- MATH 243	Probability and Statistics.....	4
• <b>Spring Quarter</b>		
- BA 227	Business Law II.....	3
- CS 125 SS	Spreadsheet Applications .....	4
- MATH 244	Probability and Statistics.....	4

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 211*	Principles of Accounting I .....	4
• <b>Winter Quarter</b>		
- BA 212*	Principles of Accounting II .....	4
• <b>Spring Quarter</b>		
- BA 213*	Principles of Accounting III .....	4

\*BA 101, 211, 212, 213, 226 and ECON 201, 202, 203 must be completed with a "C" grade or better.

## Business Administration Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Business

**Department Chair:** Dr. Wes Tucker (ext. 224)

**Advising:** Dr. Wes Tucker (ext. 224); Kent Banner (ext. 229)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Business Administration at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

Oregon universities require students seeking an Associate of Arts degree to have either two years high school or two terms college second language.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Business Administration and Accounting emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### ELECTIVES (TO TOTAL 90 CREDITS)

Note: Courses used to fulfill foundation skills requirements may not be used as electives.

#### RECOMMENDED COURSES FOR BUSINESS ADMINISTRATION EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 101*	Intro to Business .....	4
- BA 131	Intro to Business Computing .....	4
- MATH 111	College Algebra .....	4
• <b>Winter Quarter</b>		
- BA 214	Business Communications .....	3
- BA 226*	Business Law I .....	3
- MATH 243	Intro to Probability and Statistics .....	4
• <b>Spring Quarter</b>		
- BA 227	Business Law II .....	3
- CS 125 SS	Spreadsheet Applications .....	4
- MATH 244	Intro to Probability and Statistics .....	4

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 211*	Principles of Accounting I .....	4
- ECON 201	Principles of Economics: Micro. ....	3
• <b>Winter Quarter</b>		
- BA 212*	Principles of Accounting II .....	4
- ECON 202	Principles of Economics: Macro. ....	3
• <b>Spring Quarter</b>		
- BA 213*	Principles of Accounting III .....	4
- ECON 203	Principles of Economics: Economics Issues .....	3

\* BA 101, 211, 212, 213, 226 must be completed with a grade of "C" or better.

# BUSINESS ADMINISTRATION ACCOUNTING EMPHASIS

## Associate of Arts Transfer Degree

### Business Administration

### Accounting Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Business

**Department Chair:** Dr. Wes Tucker (ext. 224)

**Advising:** Dr. Wes Tucker (ext. 224); Kent Banner (ext. 229)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Business Administration or Accounting at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

Oregon universities require students seeking an Associate of Arts degree to have either two years high school or two terms college second language.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Business Administration and Accounting emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### ELECTIVES (TO TOTAL 90 CREDITS)

Note: Courses used to fulfill foundation skills requirements may not be used as electives.

#### RECOMMENDED COURSES FOR BUSINESS ADMINISTRATION ACCOUNTING EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 101*	Intro to Business .....	4
- BA 131	Intro to Business Computing .....	4
- MATH 111	College Algebra .....	4
• <b>Winter Quarter</b>		
- BA 214	Business Communications .....	3
- BA 226*	Business Law I .....	3
- MATH 243	Intro to Probability and Statistics .....	4
• <b>Spring Quarter</b>		
- BA 227	Business Law II .....	3
- CS 125 SS	Spreadsheet Applications .....	4
- MATH 244	Intro to Probability and Statistics .....	4

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 211*	Principles of Accounting I .....	4
- ECON 201	Principles of Economics: Micro. ....	3
• <b>Winter Quarter</b>		
- BA 212*	Principles of Accounting II .....	4
- ECON 202	Principles of Economics: Macro. ....	3
• <b>Spring Quarter</b>		
- BA 213*	Principles of Accounting III .....	4
- ECON 203	Principles of Economics: Economics Issues .....	3

\*BA 101, 211, 212, 213, 226 must be completed with a grade of "C" or better.

## Business Management

### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Business

**Department Chair:** Dr. Wes Tucker (ext. 224)

**Advising:** Dr. Wes Tucker (ext. 224); Kent Banner (ext. 229)

#### PROGRAM OVERVIEW

This degree prepares students for a wide variety of careers in business management. Entry level positions include management trainee, customer service, retail/wholesale/manufacturing sales representative, and positions in general business.

**This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution.** A minimum of **90 credits** and a minimum **grade point average of 2.0** are needed to graduate with a degree.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, BA 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### DUAL CREDIT (2+2)

Students will receive credit for business classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### LEARNING OUTCOMES

Students who complete the Associate of Applied Science degree program will be prepared to:

- Compose grammatically correct, well-organized written and oral business presentations.
- Apply appropriate mathematical skills for business problem solving.
- Analyze business information presented in a variety of formats such as tables, lists, and figures.
- Listen to and accurately assess responses of customers and coworkers within diverse cultural contexts.
- Utilize applied technology to support business functions.
- Use critical and creative thinking skills to solve business problems.
- Apply ethical and legal business laws and regulations in solving business problems.
- Appraise differences among global economic systems.

#### RELATED EDUCATION REQUIREMENTS (16 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (9 credits)**
  - WR 121 English Composition

- BA 214 Business Communications
- SP 111 Fundamentals of Speech or
- SP 219 Small Group Discussion
- **Computation Skills (4 credits)**
  - BA 104 Business Math
- **Human Relations Skills (3 credit)**
  - BA 204 Teamwork Dynamics

#### ELECTIVES (5 CREDITS)

Students should meet with their advisor for a list of suggested electives.

#### REQUIRED COURSES FOR BUSINESS MANAGEMENT (69 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 101	Intro to Business .....	4
- BA 131	Intro to Business Computing .....	4
- BA 200	Applied Accounting I <u>or</u>	
- BA 211	Principles of Accounting I .....	4
- BA 104	Business Math .....	4
• <b>Winter Quarter</b>		
- BA 223	Principles of Marketing.....	3
- CS 125 SS	Spreadsheet Applications .....	4
- BA 201	Applied Accounting II <u>or</u>	
- BA 212	Principles of Accounting II .....	4
- BA 255	Personnel Supervision .....	3
• <b>Spring Quarter</b>		
- BA 206	Principles of Management.....	3
- BA 214	Business Communications .....	3
- BA 202	Applied Accounting III <u>or</u>	
- BA 213	Principles of Accounting III .....	4
- BA 203	International Business .....	3

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 204	Teamwork Dynamics .....	3
- BA 153	Critical/Creative Thinking .....	3
- BA 249	Retail Management .....	3
- ECON 201	Principles of Economics/Micro <u>or</u>	
- ECON 202	Principles of Economics/Macro .....	3
• <b>Winter Quarter</b>		
- BA 226	Business Law I .....	3
- BA 280	Cooperative Work Experience .....	2
- OA 201	Word Processing I .....	3
- CS 125 A	Database Applications .....	4
- BA 239	Principles of Advertising .....	3
• <b>Spring Quarter</b>		
- BA 227	Business Law II .....	3
- BA 250	Small Business Management.....	3
- BA 243	Consumer Behavior .....	3

**Total Number of Credits in Degree .....90**

# BUSINESS MANAGEMENT ACCOUNTING OPTION

## Associate of Applied Science Degree

### Business Management Accounting Option

#### ASSOCIATE OF APPLIED SCIENCE DEGREE

Department: Business

Department Chair: Dr. Wes Tucker (ext. 224)

Advising: Dr. Wes Tucker (ext. 224); Kent Banner (ext. 229)

#### PROGRAM OVERVIEW

This program prepares students for a variety of careers in accounting. Successful graduates of this program may secure entry level positions as bookkeepers or accounting clerks in payroll or accounts payable and accounts receivable.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution. A minimum of 90 credits and a minimum grade point average of 2.0 are needed to graduate with a degree.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, BA 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### DUAL CREDIT (2+2)

Students will receive credit for business classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### LEARNING OUTCOMES

Students who complete the Business Management Accounting Option Associate of Applied Science degree program will be prepared to:

- Compose grammatically correct, well-organized written and oral business presentations.
- Apply appropriate mathematical skills for business problem solving.
- Analyze business information presented in a variety of formats such as tables, lists, and figures.
- Listen to and accurately assess responses of customers and coworkers within diverse cultural contexts.
- Utilize applied technology to support business functions.
- Use critical and creative thinking skills to solve business problems.
- Apply ethical and legal business laws and regulations in solving business problems.
- Appraise differences among global economic systems.

#### RELATED EDUCATION REQUIREMENTS (16 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (9 credits)**
  - WR 121 English Composition
  - BA 214 Business Communications
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Computation Skills (4 credits)**
  - BA 104 Business Math
- **Human Relations Skills (3 credit)**
  - BA 204 Teamwork Dynamics

#### ACCOUNTING ELECTIVES (6 CREDITS)

- BA 230 Payroll Accounting ..... 3
- BA 236 Computer Assisted Accounting II ..... 3

#### REQUIRED COURSES FOR BUSINESS MANAGEMENT ACCOUNTING OPTION (72 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 101	Intro to Business .....	4
- BA 131	Intro to Business Computing .....	4
- BA 200	Applied Accounting I <u>or</u>	
- BA 211	Principles of Accounting I .....	4
• <b>Winter Quarter</b>		
- BA 223	Principles of Marketing.....	3
- CS 125 SS	Spreadsheet Applications .....	4
- BA 201	Applied Accounting II <u>or</u>	
- BA 212	Principles of Accounting II .....	4
- BA 256	Income Tax Procedures .....	3
• <b>Spring Quarter</b>		
- BA 202	Applied Accounting III <u>or</u>	
- BA 213	Principles of Accounting III .....	4
- BA 228	Computer-Assisted Accounting.....	3

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 153	Critical/Creative Thinking .....	3
- BA 215	Cost Accounting .....	3
- OA 201	Word Processing I .....	3
- ECON 201	Principles of Economics/Micro <u>or</u>	
- ECON 202	Principles of Economics/Macro .....	3
• <b>Winter Quarter</b>		
- BA 226	Business Law I .....	3
- BA 203	International Business .....	3
- BA 280	Cooperative Work Experience .....	2
- CS 125A	Database Applications .....	4
- BA 255	Personnel Supervision .....	3
• <b>Spring Quarter</b>		
- BA 227	Business Law II .....	3
- BA 206	Principles of Management .....	3
- BA 250	Small Business Management .....	3
- BA 240	Fund Accounting .....	3

**Total Number of Credits in Degree .....94**

## Retail Management CAREER PATHWAY CERTIFICATE

**Department:** Business

**Department Chair:** Dr. Wes Tucker (ext. 224)

**Advising:** Dr. Wes Tucker (ext. 224); Kent Banner (ext. 229)

The Retail Management certificate prepares students for leadership responsibilities in a retail organization. Students may own and/or operate small retail firms or work for larger retail firms. Duties may include marketing, managing finances, supervising employees, purchasing goods and services, and monitoring sales transactions.

The Retail Management Certificate is endorsed by the Western Association of Food Chains (WAFC) .

All courses in this certificate may be applied to the Business Management Associate of Applied Science degree. A minimum **grade point average of 2.0** is required to obtain the certificate.

### LEARNING OUTCOMES

Students who complete the less-than-one-year certificate will be prepared to:

- Demonstrate effective oral and written skills appropriate in retail management environment.
- Utilize critical thinking skills to solve retail business problems
- Perform essential retail sales computations, using appropriate technology and applications.
- Demonstrate the ability to assess and develop business strategies in response to consumer needs and market changes.

### REQUIRED COURSES FOR THE RETAIL MANAGEMENT CERTIFICATE OF COMPLETION (33 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence. (All courses are offered Online.)

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- BA 249	Retail Management .....	3
- BA 104	Business Math .....	4
- BA 206	Principles of Management.....	3
<b>• Winter Quarter</b>		
- BA 223	Principles of Marketing.....	3
- BA 255	Personnel Supervision .....	3
- BA 131	Intro to Business Computing .....	4
- BA 211	Principles of Accounting I <b>OR</b>	
- BA 200	Applied Accounting I.....	4
<b>• Spring Quarter</b>		
- BA 214	Business Communications .....	3
- BA 204	Teamwork Dynamics.....	3
- SP 111	Fundamentals of Speech .....	3

**Total Number of Credits in Certificate .....33**

### Chemistry Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science

**Department Chair:** Dr. Marie Strunk (ext. 347)

**Advising:** Dr. Marie Strunk (ext 347); Rick Reynolds (ext. 323)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Chemistry at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Chemistry emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

### RECOMMENDED COURSES FOR CHEMISTRY EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CHEM 221*	College Chemistry .....	5
- MATH 111	College Algebra .....	4
- BIOL 211*	Biology .....	5
• <b>Winter Quarter</b>		
- CHEM 222*	College Chemistry .....	5
- MATH 112*	Elementary Functions .....	4
• <b>Spring Quarter</b>		
- CHEM 223*	College Chemistry .....	5
- MATH 113*	Pre-Calculus .....	4

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- MATH 251*	Calculus I.....	5
- PHYS 211*	Classical Physics I .....	5
• <b>Winter Quarter</b>		
- MATH 252*	Calculus II.....	5
- PHYS 212*	Classical Physics II .....	5
• <b>Spring Quarter</b>		
- MATH 253*	Calculus III.....	5
- PHYS 213*	Classical Physics III .....	5

\* Indicates course is on the distribution list. See page 31 for guidelines.

## Pre-Chiropractic Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science

**Department Chair:** Dr. Marie Strunk (ext. 347)

**Advising:** Dr. Marie Strunk (ext. 347); Kerby Winters (ext. 369); Arwyn Larson (ext. 213)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a Chiropractic degree at a four-year college or university and include all requirements for the Associate of Arts (AOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Pre-Chiropractic emphasis course fulfill a portion of the distribution requirements.

### RECOMMENDED DISTRIBUTION LIST ELECTIVES FOR PRE-CHIROPRACTIC (9 CREDITS)

- PSYC 201, 202, 203 General Psychology

### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

### RECOMMENDED COURSES FOR PRE-CHIROPRACTIC EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BIOL 211*	Biology .....	5
- CHEM 221*	College Chemistry .....	5
- MATH 111	College Algebra .....	4
• <b>Winter Quarter</b>		
- BIOL 212*	Biology .....	5
- CHEM 222*	College Chemistry .....	5
- MATH 112*	Elementary Functions .....	4
• <b>Spring Quarter</b>		
- BIOL 213*	Biology .....	5
- CHEM 223*	College Chemistry .....	5
- FNUT 225*	Nutrition .....	4

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CHEM 227	Organic Chemistry .....	5
- PHYS 201*	General Physics I .....	4
• <b>Winter Quarter</b>		
- CHEM 228	Organic Chemistry .....	5
- PHYS 202*	General Physics II .....	4
• <b>Spring Quarter</b>		
- CHEM 229	Organic Chemistry .....	5
- PHYS 203*	General Physics III .....	4

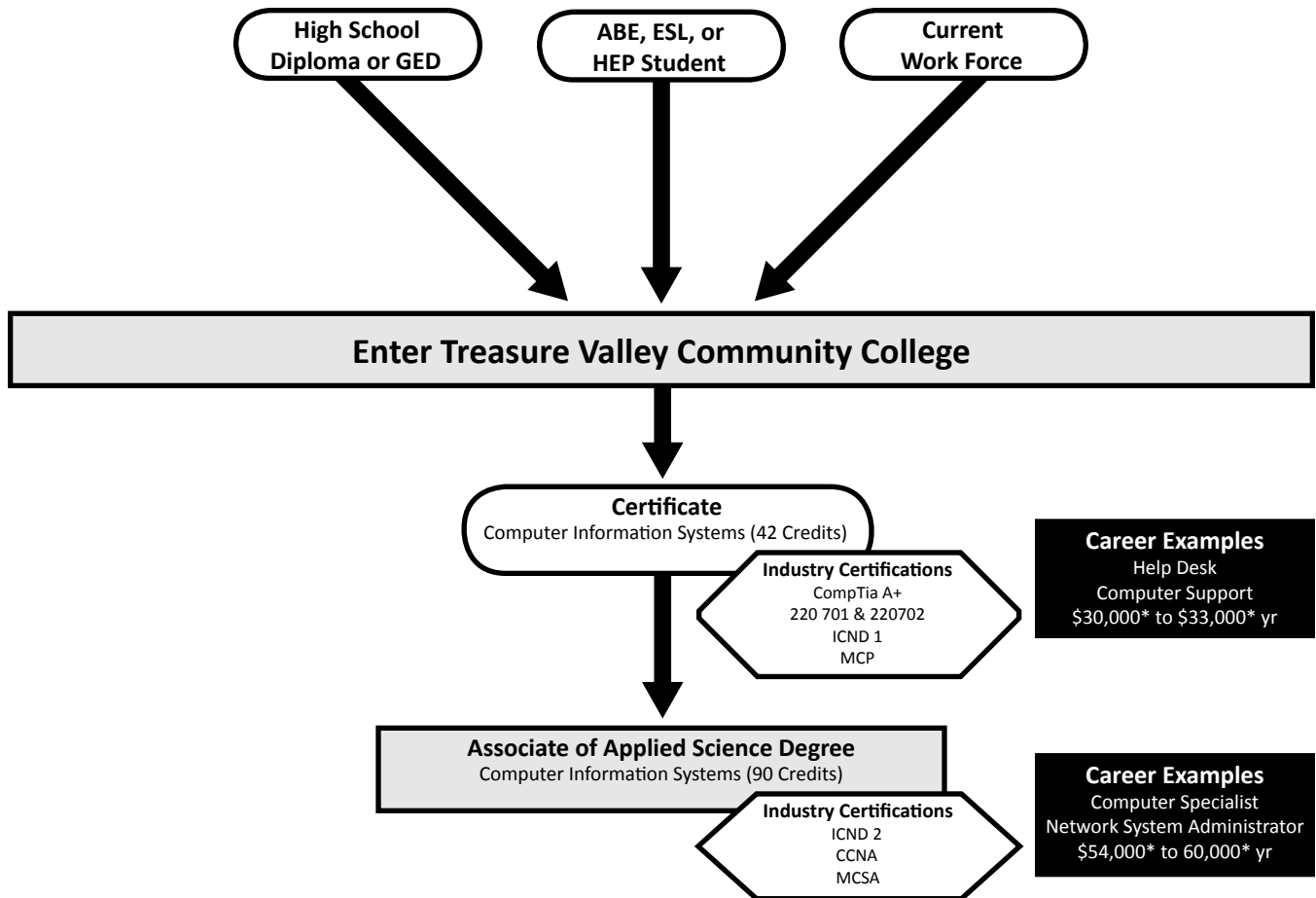
\* Indicates course is on the distribution list. See page 31 for guidelines.

### Computer Information Systems Career Pathway Options

Department: Business

Department Chair: Dr. Wes Tucker (ext. 224)

Advising: Dustin Mason (ext. 231)



\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

## Computer Information Systems CERTIFICATE

**Department:** Business  
**Department Chair:** Dr. Wes Tucker (ext. 224)  
**Advising:** Dustin Mason (ext. 231)

The Computer Information Systems certificate prepares students for a variety of entry-level positions in the computer field including call center technician or desktop technician. The program combines hands-on learning and campus labs and dynamic web-based instruction. Students completing the certificate are prepared to sit for the COMP TIA A+ certification exam.

All courses in this certificate may be transferred into the Computer Information Systems Associate of Applied Science degree. A minimum **grade point average of 2.0** is required to obtain the certificate.

### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, CIS 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

### LEARNING OUTCOMES

Students who complete the certificate will be prepared to:

- Demonstrate the ability to analyze an existing network configuration and implement a new configuration to improve network performance.
- Interact professionally with end users, including assessing and prioritizing end user requests, writing clear, succinct directions for end user training, and writing end user documentation.
- As a technician, demonstrate the ability to work effectively in a team environment.
- Pass CompTia A+ industry standardized test
- Pass ICND1 Cisco industry standardized test #640-280.
- Pass MCDST Microsoft industry standardized test #70-271.

### RELATED EDUCATION REQUIREMENTS (12 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Workplace Communication
- **Computation Skills (5 credits)**
  - MATH 95 (or above) Intermediate Algebra
- **Human Relations Skills (4 credits)**
  - BA 204 Teamwork Dynamics
  - INED 156 Employment Strategies

### REQUIRED COURSES FOR COMPUTER INFORMATION SYSTEMS CERTIFICATE (30 CREDITS\*)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- CS 120	Computer Concepts.....	4
- CIS 140	Introduction to Operating Systems.....	4
- CIS 110	Information Technology Essentials .....	3
- BA 204	Teamwork Dynamics.....	3
<b>• Winter Quarter</b>		
- CIS 101	Networking I: Home/Small Office.....	4
- CIS 195	Website Fundamentals .....	4
- CIS 111	Information Technology Essentials II .....	3
<b>• Spring Quarter</b>		
- CIS 225	End User Support.....	3
- CIS 102	Networking 2: Small/Medium Business.....	4
- CIS 280	Work Experience.....	1

\* Does not include Related Education Requirement BA 204

**Total Number of Credits in Certificate .....42**

# COMPUTER INFORMATION SYSTEMS

Associate of Applied Science Degree

## Computer Information Systems ASSOCIATE OF APPLIED SCIENCE DEGREE

Department: Business

Department Chair: Dr. Wes Tucker (ext. 224)

Advising: Dustin Mason (ext. 231)

### PROGRAM OVERVIEW

This program prepares students for work in a variety of computer related careers as desktop administrator, network analyst, network administrator, network engineer, WAN administrator, Server administrator, or SQL support specialist. TVCC is a registered academy for VMware, Cisco, and Microsoft, the leading technologies in the world of Information Systems. The program combines hands-on learning and campus labs and dynamic web-based instruction.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer course-work are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A minimum of **90 credits** and a minimum **grade point average of 2.0** are needed to graduate.

### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, CIS 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

### LEARNING OUTCOMES

Students who complete the degree will be prepared to:

- Demonstrate the ability to analyze an existing network configuration and implement a new configuration to improve network performance.
- Interact professionally with end users, including assessing and prioritizing end user requests, writing clear, succinct directions for end user training, and writing end user documentation.
- As a technician, demonstrate the ability to work effectively in a team environment.
- Pass ICNDI Cisco industry standardized test #640-280.
- Pass MCDST Microsoft industry standardized test #70-271.
- Design and configure a CISCO information structure with documentation to support the net work structure.
- Pass all the CCNA industry standardized tests.
- Pass all MCSA industry standardized tests.
- Pass all the A+ CompTia standardized tests.

### RELATED EDUCATION REQUIREMENTS (12 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Workplace Communication
- **Computation Skills (5 credits)**
  - MATH 95 (or above) Intermediate Algebra

- **Human Relations Skills (4 credits)**
  - BA 204 Teamwork Dynamics
  - INED 156 Employment Strategies

### REQUIRED COURSES FOR COMPUTER INFORMATION SYSTEMS (78 CREDITS\*)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CS 120	Computer Concepts.....	4
- CIS 140	Introduction to Operating Systems.....	4
- CIS 110	Information Technology Essentials .....	3
- BA 204	Teamwork Dynamics.....	3
• <b>Winter Quarter</b>		
- CIS 101	Networking I: Home/Small Business.....	4
- CIS 195	Website Fundamentals .....	4
- CIS 111	Information Technology Essentials II .....	3
• <b>Spring Quarter</b>		
- CIS 225	End User Support.....	3
- CIS 280	Work Experience.....	2
- CIS 102	Networking 2: Small/Medium Business.....	4

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CIS 133 CS	C# Programming I .....	4
- CIS 240 W	Windows Server Operations .....	4
- CIS 103	Networking 3: Routing & Switching .....	4
- CS 125 A	Database Applications .....	4
- CIS 280	Work Experience.....	1
• <b>Winter Quarter</b>		
- CIS 234 N	Advanced C# Programming II.....	4
- CIS 240	Server Operating. Systems.....	4
- CIS 104	Networking 4: Designing & Supporting. ....	4
- CIS 280	Work Experience.....	1
• <b>Spring Quarter</b>		
- CIS 276	Advance SQL .....	4
- CIS 297 E	Introduction to MS Exchange .....	4
- CIS 244	Project Management: Analysis and Design .....	4
- CIS 284	Network Security .....	4
- CIS 280	Work Experience.....	1

\* Does not include Related Education Requirement BA 204

**Total Number of Credits in Degree .....90**

## Computer Science

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science  
**Department Chair:** Dr. Marie Strunk (ext. 347)  
**Advising:** Dr. Marie Strunk (ext. 347); Dr. Rick Reynolds (ext. 325)

#### PROGRAM OVERVIEW

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Computer Science at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122 English Composition
  - WR 123 English composition **or**
  - WR 127 Technical Report Writing
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Pre-Chiropractic emphasis course fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES

For students who are not ready for calculus:  
 MATH 112\* Elementary Functions  
 MATH 113\* Pre-Calculus

#### RECOMMENDED COURSES FOR COMPUTER SCIENCE EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CS 100	Orientation to Programming.....	4
• <b>Winter Quarter</b>		
- CS 161	Computer Science I.....	4
• <b>Spring Quarter</b>		
- CS 162	Computer Science II.....	4

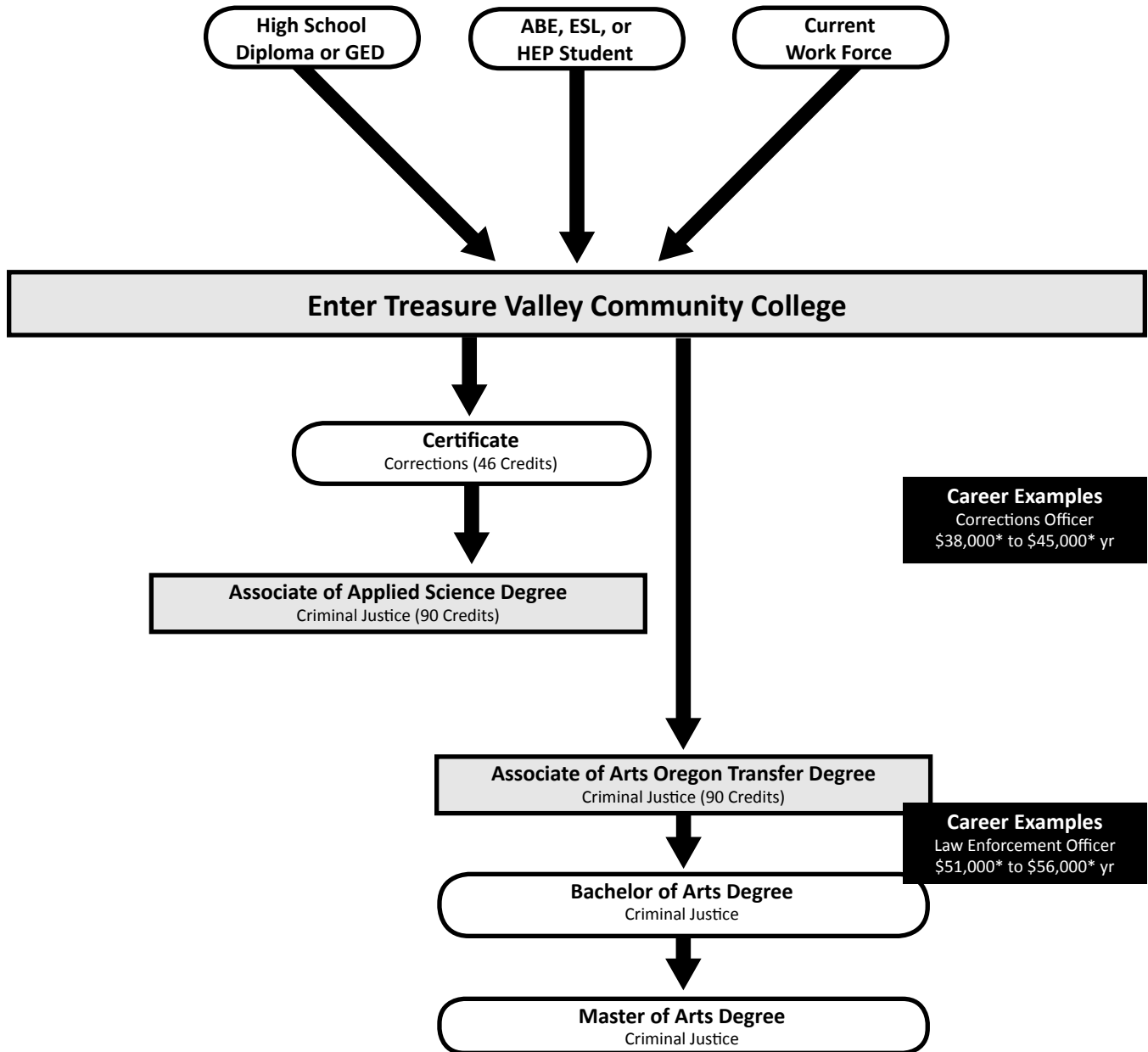
#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- MATH 251*	Calculus I.....	5
- PHYS 211*	Classical Physics I <b>or</b>	
- CHEM 221*	College Chemistry.....	5
• <b>Winter Quarter</b>		
- MATH 252*	Calculus II.....	5
- PHYS 212*	Classical Physics II <b>or</b>	
- CHEM 222*	College Chemistry.....	5
• <b>Spring Quarter</b>		
- MATH 253*	Calculus III.....	5
- PHYS 213*	Classical Physics III <b>or</b>	
- CHEM 223*	College Chemistry.....	5

\* Indicates course is on the distribution list. See page 31 for guidelines.

## Criminal Justice Career Pathway Options

**Department:** Social Science  
**Department Chair:** Debbie Skousen (ext. 287)  
**Advising:** Scott Davis (ext. 253)



\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

## Criminal Justice: Corrections CERTIFICATE

**Department:** Social Science  
**Department Chair:** Debbie Skousen (ext. 287)  
**Advising:** Scott Davis (ext. 253)

This certificate prepares students for entry level positions in the corrections field.

**Most** courses in this certificate may be applied to the Criminal Justice degree. A minimum **grade point average of 2.0** is required to obtain the certificate.

### LEARNING OUTCOMES

Students who complete the certificate will be prepared to:

- Identify historical and philosophical evolution of criminal justice sanctions and punishment
- Describe the constitutional and statutory foundation for offender treatment within correctional facilities

### RELATED EDUCATION REQUIREMENTS (10 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Workplace Communication
- **Computation Skills (4 credits)**
  - MATH 60 Beginning Algebra I (or above)
- **Human Relations Skills (3 credits)**
  - CJ 200 Community Relations

### REQUIRED COURSES FOR CRIMINAL JUSTICE CERTIFICATE (39 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CJ 100	Intro to Criminal Justice .....	3
- CJ 130	Intro to Corrections .....	3
- CJ 132	Intro to Parole & Probation .....	3
- CJ 120	Intro to Judicial Process .....	3
- HPE 295	Health and Fitness for Life .....	3
• <b>Winter Quarter</b>		
- CJ 201	Intro to the Juvenile Justice .....	3
- CJ 220	Criminal Law .....	3
- CJ 225	Corrections Law .....	3
- CJ	Any CJ Elective .....	3
• <b>Spring Quarter</b>		
- CJ 222	Procedural Law .....	3
- HPE 120	First Aid & CPR .....	2
- HPE 185	Physical Education Activity .....	1
- CJ 202	Violence and Aggression .....	3
- CJ 205	Victims of Crime .....	3

**Total Number of Credits in Certificate .....49**

# CRIMINAL JUSTICE

## Associate of Applied Science Degree

### Criminal Justice

#### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Social Science

**Department Chair:** Debbie Skousen (ext. 287)

**Advising:** Scott Davis (ext. 253)

#### PROGRAM OVERVIEW

This program prepares students to enter a career in criminal justice. Graduates are prepared to work as law enforcement or correctional officers. They may also find employment in insurance adjustment, dispatch, court hearings, public or private security, license inspection with Department of Motor Vehicles, or as technicians in a number of other criminal agencies.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution. A minimum of 90 credits and a minimum grade point average of 2.0** are needed to graduate.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, CJ 280) at a supervised work site. Department Chair or Criminal Justice Advisor approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### LEARNING OUTCOMES

Students who complete the degree will be prepared to:

- Identify historical and philosophical evolution of criminal justice sanctions and punishment.
- Describe the constitutional and statutory foundation for offender treatment within correctional facilities.
- Identify the characteristics of professional integrity and ethical standards for criminal justice professionals.
- Describe and relate the constitutional rights and responsibilities of citizens, offenders, and victims as they apply to state, federal and procedural laws.
- Describe and apply the process and technology used to gather, investigate, manage and report information in the criminal justice field.
- Identify the legal responsibilities of criminal justice professionals as they relate to cultural diversity and establishing positive community relationships.

#### RELATED EDUCATION REQUIREMENTS (19 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (12 credits)**
  - WR 121, 122 English Composition
  - WR 227 Technical Report Writing
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion

- **Computation Skills (4 credits)**
  - MATH 60 Beginning Algebra I (or above)
- **Human Relations Skills (3 credits)**
  - CJ 200\* Community Relations

#### ELECTIVES (10 CREDITS)

Students should meet with their advisor for a list of suggested electives.

#### REQUIRED COURSES FOR CRIMINAL JUSTICE PROGRAM (61 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CJ 100	Intro to Criminal Justice .....	3
- CJ 111	Concepts of Enforcement Service.....	3
- CJ 130	Intro to Corrections .....	3
- HPE 295	Health and Fitness for Life .....	3
• <b>Winter Quarter</b>		
- CJ 201	Intro to the Juvenile Justice .....	3
- CJ 225	Corrections Law .....	3
- CJ 112	Patrol Procedures .....	3
- SOC 205	General Sociology .....	3
• <b>Spring Quarter</b>		
- CJ 222	Procedural Law .....	3
- CJ 113	Accident Investigation/Traffic Laws .....	3
- CJ	Any CJ Elective .....	3

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CJ 132	Intro to Parole & Probation .....	3
- CJ 120	Intro to Judicial Process .....	3
- CJ 210	Criminal Investigation I .....	3
- CJ 216	Crime Scene Technician I .....	1
• <b>Winter Quarter</b>		
- CJ 220	Criminal Law .....	3
- CJ 211	Criminal Investigation II .....	3
- CJ 226	Crime Scene Technician II .....	1
- CJ 232	Corrections Casework .....	3
• <b>Spring Quarter</b>		
- CJ 223	Rules of Evidence .....	3
- CJ 212	Criminal Investigation III .....	3
- CJ 236	Crime Scene Technician III .....	1
- CJ 280***	Cooperative Work Experience .....	1

\*\*\*CWE requires a successful LEADS background check, and some may require current First Aid Certification. CWE opportunities must be arranged with the CWE coordinator prior to the beginning of the quarter.

Note: Students completing the degree program who do not wish to earn the Corrections Certificate may take other criminal justice electives instead of CJ 225.

**Total Number of Credits in Degree .....90**

## Criminal Justice Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Social Science  
**Department Chair:** Debbie Skousen (ext. 287)  
**Advising:** Scott Davis (ext. 253)

This degree fulfills the general education block transfer in Idaho and Oregon. At least 90 transferable credits and a minimum **grade point average of 2.0** are needed for graduation.

The following courses are recommended for students interested in pursuing a degree in Criminal Justice at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121 Intro to College Writing
  - WR 122, WR 123 College Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 105 Contemporary Mathematics

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some courses recommended for Criminal Justice emphasis fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR CRIMINAL JUSTICE EMPHASIS (36 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CJ 209	Intro to Careers in Criminal Justice .....	3
- CJ 100*	Intro to Criminal Justice .....	3
- CJ 130	Intro to Corrections .....	3
• <b>Winter Quarter</b>		
- CJ 201*	Intro to Juvenile Justice .....	3
- CJ 260	Intro to Corrections II.....	3
- CJ 140	US Criminal Justice System .....	3
• <b>Spring Quarter</b>		
- CJ 222*	Procedural Law .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CJ 120*	Intro to Judicial Process .....	3
- CJ 111	Concepts of Enforcement Services .....	3
- CJ 132	Intro to Parole and Probation .....	3
• <b>Winter Quarter</b>		
- CJ 200	Community Relations .....	3
- CJ 220*	Criminal Law .....	3

\* Indicates course is on the distribution list. See page 31 for guidelines.

# PRE-DENTAL HYGIENE

## Associate of Arts Transfer Degree

### Pre-Dental Hygiene Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science  
**Department Chair:** Dr. Marie Strunk (ext. 287)  
**Advising:** Dr. Marie Strunk (ext. 287); Cindy Feibert (ext. 556)

The following courses are recommended for students interested in pursuing a degree in Dental Hygiene at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. Students should carefully check the prerequisites at their intended institution for differing requirements in math, biology and chemistry. Some schools require statistics and one year of organic chemistry.

This degree fulfills the general education block transfer in Idaho and Oregon. At least **90 transferable credits** and a minimum **grade point average of 2.0** are needed for graduation.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting appropriate preparatory courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Pre-Dental Hygiene emphasis courses fulfill a portion of the distribution requirements.

#### SUGGESTED ELECTIVES (10 CREDITS)

- PSYC 201\* General Psychology
- SOC 204\* General Sociology
- BA 131 Intro to Business Computing or
- CS 120 Computer Concepts

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

### RECOMMENDED COURSES FOR PRE-DENTAL HYGIENE EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BIOL 101*	General Biology <u>or</u>	
- BIOL 211*	Biology .....	4-5
- CHEM 104*	Survey of Chemistry .....	4
• <b>Winter Quarter</b>		
- CHEM 105*	Survey of Chemistry .....	4
- MATH 243*	Statistics.....	4
• <b>Spring Quarter</b>		
- CHEM 106*	Survey of Chemistry .....	4
- FNUT 225*	Nutrition .....	4

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BIOL 231*	Anatomy and Physiology .....	4
• <b>Winter Quarter</b>		
- BIOL 232*	Anatomy and Physiology .....	4
- BIOL 234*	Microbiology .....	4
• <b>Spring Quarter</b>		
- BIOL 233*	Anatomy and Physiology .....	4

\* Indicates course is on the distribution list. See page 31 for guidelines.

#### COLLEGE TRANSFER - RECOMMENDED FIRST YEAR COURSEWORK

Students transferring to a **two-year dental hygiene program** may fulfill general education requirements at TVCC. Students should cross-check the following recommended courses with an advisor at their two-year dental hygiene transfer institution. WR 121, WR 122, WR 123, SP 111, MATH 111, BIOL 101, CHEM 104, BA 131, BIOL 231, PSYC 201, BIOL 232, CHEM 105, FNUT 225, BIOL 233, BIOL 234, CHEM 106.

## **Diagnostic Imaging**

### **ASSOCIATE OF APPLIED SCIENCE DEGREE**

**Department:** Science

**Department Chair:** Dr. Marie Strunk (ext. 287)

**Advising:** Dr. Marie Strunk (ext. 287); Lor Eyer (ext. 419)

### **PROGRAM OVERVIEW**

Pending. See advisor for more information.

### Economics Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Business

**Department Chair:** Dr. Wes Tucker (ext. 224)

**Advising:** Gerry Hampshire (ext. 361)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transferable credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Economics at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. Students will need to pre-determine whether they are pursuing a Bachelor of Arts or a Bachelor of Science degree. Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 13 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech **or**
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended courses for economics emphasis fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR ECONOMICS EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- HIST 101*	History of Western Civilization.....	3
• <b>Winter Quarter</b>		
- MATH 243*	Probability and Statistics I.....	4
- HIST 102*	History of Western Civilization.....	3
• <b>Spring Quarter</b>		
- MATH 244*	Probability and Statistics II.....	4
- HIST 103*	History of Western Civilization.....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- ECON 201*	Principles of Economics: Micro. ....	3
- MATH 251*	Calculus I <b>or</b>	
- MATH 241*	Calculus for Business/Social Science I.....	4-5
• <b>Winter Quarter</b>		
- MATH 252*	Calculus II <b>or</b>	
- MATH 242*	Calculus for Business/Social Science II .....	4-5
- ECON 202*	Principles of Economics: Macro. ....	3
• <b>Spring Quarter</b>		
- ECON 203*	Principles of Economics: Economic Issues .....	3

\* Indicates course is on the distribution list. See page 31 for guidelines.

## EDUCATION AT A GLANCE

### SO YOU WANT TO TEACH....

If you are planning to teach in Oregon, you are encouraged to read the “How to Become an Oregon Teacher” advising guide from the Teacher Standards and Practices Commission website: <http://www.tspc.state.or.us/links.asp?op=2&id=0>

If you are planning to teach in Idaho, you are encouraged to visit Idaho’s Teacher Certification area at the Idaho State Department of Education website: [http://www.sde.idaho.gov/site/teacher\\_certification](http://www.sde.idaho.gov/site/teacher_certification)

#### **IF YOU WANT TO BE AN ELEMENTARY EDUCATION TEACHER (GENERALLY GRADES K-8)**

- Select the teacher education program at the university to which you plan to transfer; each university teacher education program has its own requirements for elementary education.
- You are advised to choose an Oregon university if you choose to teach in Oregon, and be certified by the Oregon Teacher Standards and Practices Commission; if you choose to teach in Idaho, you may choose to transfer to a university in either Oregon or Idaho. All states have different teacher certification processes.
- Meet with your TVCC advisor and make a two-year plan. Be sure to read **ALL** application information from the university you plan to attend. You may find entrance testing requirements, GPA requirements, and other special requirements depending upon the university.
- Complete your Associate of Arts Oregon Transfer Degree (AAOT) with TVCC; students transferring with this degree will have met all lower-division general education requirements and core education course requirements. They will be admitted at the junior level for registration purposes. Universities usually have additional requirements for admittance into teacher education programs.
  - FOR EXAMPLE: Students must take and satisfactorily pass the CBEST test to enter the CUESTE (elementary education) program at Eastern Oregon University or the Praxis 1 Math and Writing tests for Boise State University. Most universities have an elementary education entrance test. Students are advised to keep current in their math as preparation for these tests.

**Advisor for Elementary Education transfer to Oregon universities:** Renae Weber (ext 212); Lori Eyler (ext. 419) Joyce Davis (ext. 408). **Advisor for Elementary Education transfer to Idaho universities:** Joyce Davis (ext. 408); Lori Eyler (ext. 419); All general advisors (Caldwell).

#### **IF YOU WANT TO TEACH BE A SECONDARY TEACHER (GENERALLY GRADES 9-12)**

- Select the university to which you plan to transfer.
- You are advised to choose an Oregon university program if you choose to teach in Oregon and be certified by the Oregon Teacher Standards and Practices Commission. If you choose to teach in Idaho, you may choose to transfer to a university either in Oregon or Idaho. The states have different certification processes.
- Meet with your TVCC advisor and make a two-year plan.
- Complete an Associate of Arts Oregon Transfer Degree (AAOT) with TVCC with an emphasis in the subject area you wish to teach, such as Social Science, Science, Math, English, Biology, etc. Consider your interests as well as future job opportunities when selecting your area of emphasis. students transferring with this degree will have met all lower-division general education requirements and will be admitted at the junior level for registration purposes.
- Prior to entry pass the CBEST (Eastern Oregon University) or PRAXIS 1 Writing (Boise State University) exams for admittance to the teacher education program at the university. Most universities have similar admittance exams.

**Advisor:** College advisor in your subject area of emphasis or Lori Eyler (ext. 419)

#### **IF YOU WANT TO BE AN EARLY CHILDHOOD EDUCATION TEACHER (GENERALLY PRE-KINDERGARTEN)**

- Complete the Early Childhood Associate of Applied Science degree.
- Many students in this program wish to transfer. While this degree is designed for direct entry into the workforce, some courses, and at times the entire program, is transferable. Students wishing to transfer should work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution.

**Advisor:** Joyce Davis (ext. 408)

#### **IF YOU WANT TO BE AN INSTRUCTIONAL/BILINGUAL ASSISTANT**

- Complete the Instructional/Bilingual Associate of Applied Science Degree.

**Advisor:** Joyce Davis (ext. 408)

#### **IF YOU WANT TO BE TEACHING ASSISTANT IN PRIVATE DAY CARE FACILITIES**

- Complete the Early Childhood Education Certificate. All courses in the certificate apply.
- to the Early Childhood Associate of Applied Science Degree.

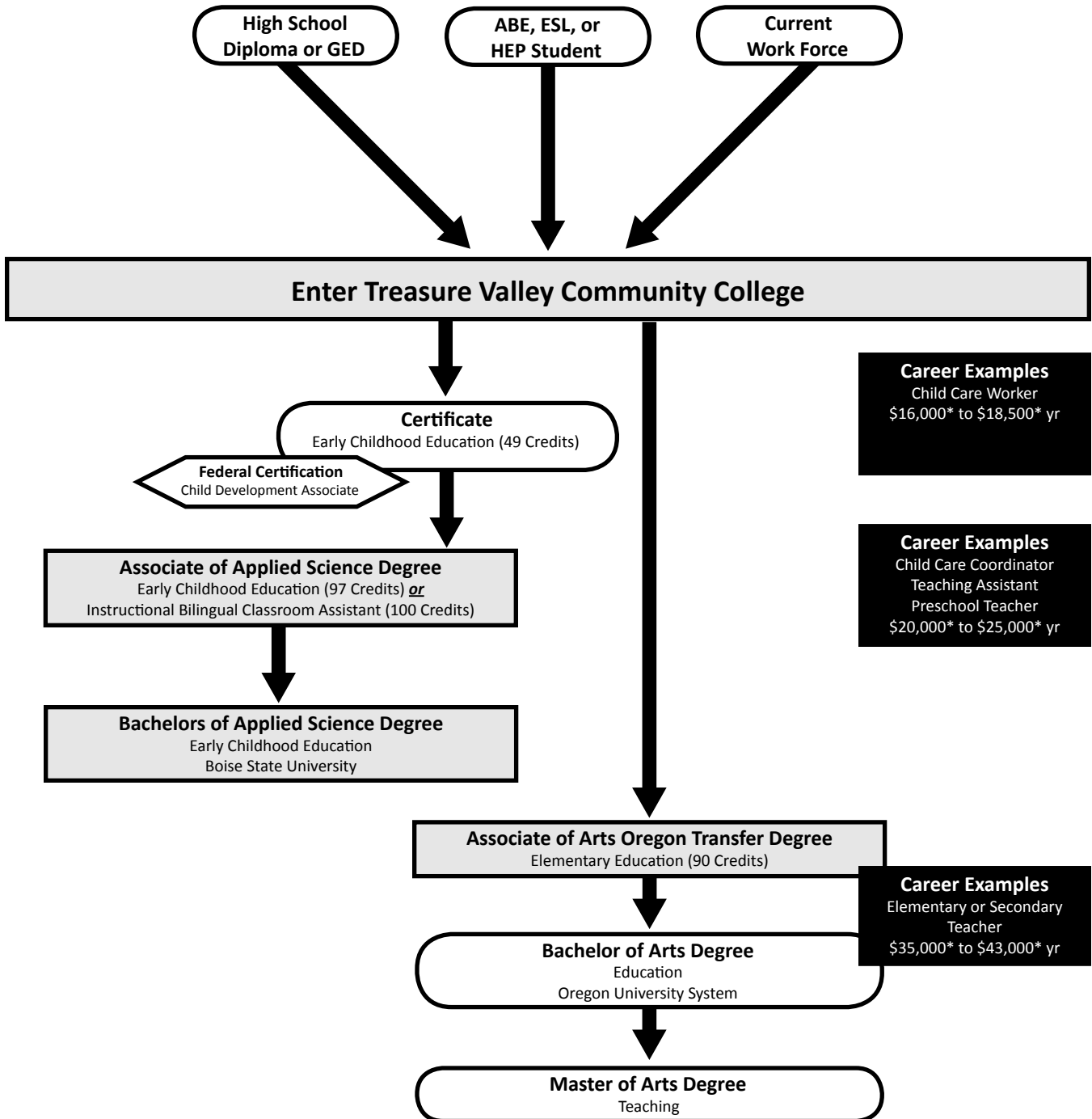
**Advisor:** Joyce Davis (ext. 408)

## Education Career Pathway Options

**Department:** Education

**Department Chair:** Joyce Davis (ext. 408)

**Advising:** Renae Weber (ext. 212), Joyce Davis (ext. 408), Lori Eylar (419)



\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

## Early Childhood Education CERTIFICATE

**Department:** Education

**Department Chair:** Joyce Davis (ext. 408)

**Advising:** Joyce Davis (ext. 408)

Students successfully completing the certificate are prepared to work in private daycare facilities as teaching assistants.

All courses in this certificate may be applied to the Early Childhood Education Associate of Applied Science degree. A minimum **grade point average of 2.0** is required to obtain the certificate.

### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (EDUC 281 - EDUC 283) at a supervised work site. Department Chair approval is required. Credits and grades are based on hours worked, work performance, and completion of learning objectives specified in a learning contract.

### LEARNING OUTCOMES

Students who complete the certificate will be prepared to:

- Apply principles and skills in observing children birth to age 8 in order to select guidance techniques to promote autonomy.
- Plan and implement nutrition plans.
- Practice appropriate communications skills—written and verbal—with supervisors, colleagues, parents and children.
- Plan and implement activities to work with children of diverse ages, backgrounds and abilities based on developmentally appropriate theories and observations.

### RELATED EDUCATION REQUIREMENTS (10 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 121 College Writing
- **Computation Skills (4 credits)**
  - MATH 60 Beginning Algebra (or above)
- **Human Relations Skills (3 credits)**
  - EDUC 246 Family/Community Relations-ECE

### REQUIRED COURSES FOR EARLY CHILDHOOD EDUCATION PROGRAM (39 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- EDUC 140	Intro to Early Childhood Education .....	3
- EDUC 141	Childhood Development I .....	3
- EDUC 156	Cooperative Plan Seminar I .....	1
- EDUC 281	Cooperative EC Internship I .....	3
- HPE 295	Health and Fitness for Life .....	3
<b>• Winter Quarter</b>		
- EDUC 247	Classroom Management .....	3
- EDUC 144	Observation I .....	3
- EDUC 145	Guidance I - Early Childhood Education.....	3
- EDUC 150	Curriculum I - Early Childhood Education .....	3
<b>• Spring Quarter</b>		
- EDUC 149	Infant/Toddler Caregiving .....	3
- EDUC 159	Music Development for ECE .....	3
- EDUC 158	Bilingual Language Development .....	3
- HPE 120	First Aid & CPR .....	2
<b>• Summer Quarter</b>		
- EDUC 157	Math Development for ECE .....	3
<b>Total Number of Credits in Certificate .....</b>		<b>40</b>

# EARLY CHILDHOOD EDUCATION

## Associate of Applied Science Degree

### Early Childhood Education

#### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Education

**Department Chair:** Joyce Davis (ext. 408)

**Advising:** Joyce Davis (ext. 408)

#### PROGRAM OVERVIEW

The Early Childhood Education program prepares students to teach and care for young children from birth to age eight with regard for children's social, physical, emotional development, and safety. Graduates are prepared to work in both public and private sectors, and in a variety of educational and child-care settings. Potential employment opportunities include nursery schools, pre-schools, day care businesses, government agencies, private kindergartens, and para-professionals in the public schools.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a minimum **grade point average of 2.0** are needed to graduate.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (EDUC 281, 282, and 283) at a supervised work site. Department Chair approval is required. Credits and grades are based on hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### LEARNING OUTCOMES

Students who complete the degree will be prepared to:

- Develop, implement and manage developmentally appropriate curriculum that supports physical, social, emotional, and cognitive development for children ages infant through 8 years.
- Demonstrate the use of effective communication strategies to build collaborative relationships with families to assist them with skill-building in guidance, nutrition, self-esteem, cognitive skills and appropriate activity choices for their child.
- Practice standards for professional ethics as applied in the early childhood environment including confidentiality and the use of communication skills in collaborative relationships with administration and coworkers.
- Master application skills appropriate for infant to 8 years in mathematics, science and language arts, including letter and number recognition, measurement, graphs, tables, colors, reading and writing.
- Master classroom management skills to facilitate schedule and use of environment to maximize children's abilities to make choices, explore personal power, develop empathy and caring behaviors, learn responsible roles for classroom and appropriate relationships.

#### RELATED EDUCATION REQUIREMENTS (10 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 121 College Writing

- **Computation Skills (4 credits)**
  - MATH 60 Beginning Algebra (or above)
- **Human Relations Skills (3 credits)**
  - EDUC 246 Family and Community Relations

#### ADDITIONAL REQUIREMENTS (8-10 CREDITS)

- HPE 120 First Aid & CPR
- HSER 248 HIV/AIDS, STD, TB: Risk Assessment
- EDUC 199 Education: Special Studies
- SOC 204, or SOC 205, or SOC 206 Sociology

#### REQUIRED COURSES FOR EARLY CHILDHOOD EDUCATION PROGRAM (80 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- EDUC 200	Intro to Education .....	4
- EDUC 140	Intro to Early Childhood Education .....	3
- EDUC 141	Child Development I .....	3
- EDUC 156	Cooperative Plan Seminar I .....	1
- EDUC 281	Coop EC Internship I .....	3
• <b>Winter Quarter</b>		
- EDUC 144	Observation I .....	3
- EDUC 145	Guidance I - Early Childhood Education .....	3
- EDUC 150	Curriculum I - Early Childhood Education .....	3
- EDUC 106	Child Development II .....	3
• <b>Spring Quarter</b>		
- EDUC 143	Child Development III .....	3
- EDUC 149	Infant/Toddler Caregiving .....	3
- EDUC 159	Music Development for ECE .....	3
- EDUC 240	Curriculum II - Early Childhood Education .....	3
- EDUC 258	Ethnic Studies for ECE Educators .....	3
• <b>Summer Quarter</b>		
- EDUC 157	Math Development - EC .....	3
- EDUC 245	Guidance II - Early Childhood Education .....	3

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- EDUC 244	Observation II - Early Childhood Education .....	3
- EDUC 241	Curriculum III - Early Childhood Education .....	3
- EDUC 166	Cooperative Plan Seminar II .....	1
- EDUC 282	Cooperative EC Internship II .....	3
• <b>Winter Quarter</b>		
- EDUC 153	Early Childhood Environments .....	3
- EDUC 246	Family/Community Relations - ECE .....	3
- EDUC 247	Classroom Management .....	3
- EDUC 248	Special Needs & Mainstreaming .....	3
• <b>Spring Quarter</b>		
- EDUC 154	Literature & Literacy for ECE .....	3
- EDUC 158	Bilingual/Language Development .....	3
- EDUC 176	Cooperative Plan Seminar III .....	1
- EDUC 202	Educational Technology .....	4
- EDUC 283	Cooperative EC Internship III .....	3

**Total Number of Credits in Degree .....**98

## Elementary Education Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Education

**Department Chair:** Joyce Davis (ext. 408)

**Advising:** Renae Weber (ext. 212), Joyce Davis (ext. 408), Lori Eylar(419)

This degree fulfills the general education block transfer in Idaho and Oregon. At least 90 transferable credits and a minimum **grade point average of 2.0** are needed for graduation.

The following courses are recommended for students interested in pursuing a degree in Elementary Education at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 Credits)**
  - WR 121, WR 122, WR 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 211 Elementary Mathematics

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students transferring to Eastern Oregon University are referred to page 86 for a list of courses and guidelines that fulfill distribution requirements. Some courses recommended for Elementary Education emphasis fulfill a portion of the distribution requirements.

NOTE: Students transferring to other four year colleges need to consult their departmental advisor when selecting distribution courses. Elementary Education programs are highly prescriptive, and requirements vary by university.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES

- EDUC 158 Bilingual Language Development
- EDUC 213 School Law
- EDUC 258 Ethnic Studies for ECE Educators
- EDUC 143 Child Development III
- EDUC 144 Observation I
- EDUC 145 Guidance I - Early Childhood Education
- EDUC 245 Guidance II - Early Childhood Education

#### RECOMMENDED COURSES FOR ELEMENTARY EDUCATION EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- EDUC 200	Intro to Education .....	4
• <b>Winter Quarter</b>		
- EDUC 250	Exceptionality in the Schools .....	4
- EDUC 246	Family/Community Relations - ECE.....	3
• <b>Spring Quarter</b>		
- EDUC 210	Theory and Practicum .....	1-3
- HPE 120	First Aid & CPR.....	2

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- MATH 211	Fundamentals of Elementary Math .....	4
- EDUC 247	Classroom Management.....	3
• <b>Winter Quarter</b>		
- EDUC 202	Educational Technology.....	4
- MATH 212	Fundamentals of Elementary Math .....	4
• <b>Spring Quarter</b>		
- EDUC 210	Theory and Practicum .....	1-3
- MATH 213	Fundamentals of Elementary Math .....	4

**SEE PAGE 86 FOR ADDITIONAL COURSES REQUIRED FOR TRANSFER TO EASTERN OREGON UNIVERSITY'S MULTIDISCIPLINARY STUDIES DEGREE PROGRAM.**

# ADDITIONAL REQUIREMENTS FOR ELEMENTARY EDUCATION

## Eastern Oregon University Course Requirements

### EASTERN OREGON UNIVERSITY COURSE REQUIREMENTS

Students are strongly encouraged to meet with an advisor from EOU early in their TVCC career, as there are other requirements to be met before students are admitted to the Multidisciplinary Studies Degree program for elementary teacher licensure.

Students must have enough elective credits to total at least 90 college-level credits. All courses must have a C- or better to meet program requirements.

### DISTRIBUTION REQUIREMENTS

#### • Arts and Letters: 15 Credits

- ART 101 Intro to Visual Arts (3 Credits)
- MUS 101 Music Fundamentals (3 Credits)
- PHIL 101 Philosophical Problems (3 Credits)
- Any Literature Course (3 Credits)
- ART or WR (3 Credits) Choose from the following:
  - ART 115 Basic Design
  - ART 131, 132, or 133 Drawing
  - ART 253, 254, or 255 Ceramics
  - ART 261 or 262 Photography
  - WR 241, 242, or 243 Intro to Imaginative Writing

#### • Social Sciences: 15 Credits

- PSYC 201, 202, or 203 Intro to Psychology (3 Credits) **or**
- PSYC 237 Seasons of Life (4 Credits)
- GEOG 105 Intro to Cultural Geography (3 Credits)
- HIST 201, 202, or 203 US History (3 Credits)
- HIST 101, 102, or 103 Western Civilization (3 Credits)
- ETHN 101, 102, or 103 Ethnic Studies (3 Credits)

#### • Science (Choose one sequence): 15 Credits

- BIOL 101, 102, 103 General Biology (12 Credits) **or**
- BIOL 211, 212, 213 Biology (15 Credits) **or**
- GEOL 201, 202, 203 Geology (12 Credits)
- AND (Choose one sequence)
- CHEM 121, 122, 123 General Chemistry (12 Credits) **or**
- CHEM 221, 222, 223 College Chemistry (15 Credits) **or**
- PHYS 201, 202, 203 General Physics (12 Credits) **or**
- Any Three of the Following: (4 Credits Each):
- GSCI 104, 105, 106 Physical Science: Physics, Chemistry, Geology
- GSCI 107, 108 Astronomy, Oceanography
- (\* Two full sequences are needed, so the credit total will be more than 15)

### ALSO REQUIRED

- HPE 295 Health and Fitness for Life (3 Credits)

# INSTRUCTIONAL/BILINGUAL CLASSROOM ASSISTANT

## *Associate of Applied Science Degree*

### Instructional/Bilingual Classroom Assistant ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Education  
**Department Chair:** Joyce Davis (ext. 408)  
**Advising:** Joyce Davis (ext. 408)

#### PROGRAM OVERVIEW

This program prepares students to assist classroom educators in helping students to achieve and succeed effectively in the classroom environment. Graduates are prepared to work in both public and private sectors. The program combines theory of child development and education with observation and supervised work experience.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A minimum of 90 credits and a minimum **grade point average of 2.0** are needed to graduate.

#### LEARNING OUTCOMES

Students who complete the degree will be prepared to:

- Demonstrate skills for maintaining professional and cooperative relationships with classroom teacher, administration, communities, students and families.
- Research career opportunities and programs for para-to-teacher progression through print, computer and expert resources.
- Develop and implement instructional responsibilities that increase effectiveness and interaction time between students and the classroom teacher including working with individual students, small student groups, and observing and reporting of student behaviors.
- Demonstrate mastery of clerical skills such as making copies, administering classroom inventories, maintaining files, collecting materials, making phone calls, checking out media equipment and assisting with school registration.
- Meet external and internal school district requirements through successful interviewing and passing tests for skill competencies and background checks.
- Demonstrate professional on the job behaviors including working effectively with others, being flexible, accepting constructive criticism, and speaking clearly using appropriate English.

#### RELATED EDUCATION REQUIREMENTS (17 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (6 credits)**
  - WR 121 English Composition
  - SP 111 Fundamentals of Speech
- **Computation Skills (5 credits)**
  - MATH 70 Algebra Review (or above)
- **Human Relations Skills (6 credits)**
  - EDUC 246 Family and Community Relations
  - EDUC 247 Classroom Management

#### ADDITIONAL PROGRAM REQUIREMENTS (18 CREDITS)

- PSYC 201 General Psychology
- ART 101 Intro to Art
- MUS 101 Music Fundamentals
- BIOL 101 General Biology
- HPE 120 First Aid
- SOC 204 or 205 General Sociology

#### REQUIRED COURSES FOR INSTRUCTIONAL/BILINGUAL CLASSROOM ASSISTANT PROGRAM (65 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- EDUC 200	Intro to Education .....	4
- EDUC 156	Cooperative Plan Seminar I .....	1
- EDUC 281	Cooperative Internship I .....	3
- EDUC 101	Intro to Paraeducator .....	3
<b>• Winter Quarter</b>		
- EDUC 106	Child Development II .....	3
- EDUC 144	Observation I .....	3
- EDUC 145	Guidance I - Early Childhood Education.....	3
- EDUC 250	Exceptionality in the Schools .....	4
<b>• Spring Quarter</b>		
- EDUC 143	Child Development III .....	3
- EDUC 103	Instructional Support .....	3
- EDUC 213	School Law .....	3
- EDUC 258	Ethnic Studies for ECE Educators .....	3
<b>• Summer Quarter</b>		
- EDUC 245	Guidance II - Early Childhood Education.....	3
- HSER 248	Infectious Dis.: Addict. Risk Assess & Red.....	2
- EDUC 160	Curriculum Studies/Math .....	3

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- EDUC 244	Observation II - Early Childhood Education .....	3
- EDUC 166	Cooperative Plan Seminar II .....	1
- EDUC 282	Cooperative Internship II .....	3
<b>• Winter Quarter</b>		
- EDUC 202	Educational Technology .....	4
- EDUC 270	Paraeducator Curriculum Studies/LA .....	3
<b>• Spring Quarter</b>		
- EDUC 158	Bilingual Language Development .....	3
- EDUC 176	Cooperative Plan Seminar III.....	1
- EDUC 283	Cooperative Internship III .....	3

**Total Number of Credits in Degree .....100**

# EMERGENCY MEDICAL TECHNICIAN (EMT)

## Certificate of Completion

### Emergency Medical Technician CERTIFICATE

**Department:** Continuing Education

**Department Chair:** Linda Simmons (ext. 281)

**Advising:** Linda Simmons (ext. 281)

This one-year Emergency Medical Technician Certificate prepares students to enter or advance in the emergency and medical fields as ambulance personnel, first responders, emergency fire personnel, and safety responders in manufacturing plants and businesses. This first year certificate is designed to meet many of the requirements of the first year of a two-year Associate of Applied Science Emergency Medical Technician degree (requires transfer to another college). A minimum **grade point average of 2.0** is required to obtain the certificate.

#### LEARNING OUTCOMES

Students who complete the certificate will be prepared to:

- Assess patients and apply treatment protocols in emergency medical situations, in a professional and ethical manner.
- Demonstrate the ability to effectively and appropriately use oral and written communication techniques with patients, families, and members of the health care team.
- Perform all basic and advanced life support skills in a safe and timely manner.

#### RELATED EDUCATION REQUIREMENTS (10 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Workplace Communications  
(Students going on to a 2-year degree need WR 121)
- **Computation Skills (4 credits)**
  - MATH 60 Beginning Algebra I (or above, if transferring)
- **Human Relations Skills (3 credits)**
  - EMS 170 Emergency Comm & Patient Trans

### REQUIRED COURSES EMERGENCY MEDICAL TECHNICIAN CERTIFICATE (37 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BIOL 231*	Anatomy and Physiology .....	4
- EMT 151	EMT Basic I.....	5
- EMT 175	Intro to Emergency Medical Services .....	3
• <b>Winter Quarter</b>		
- BIOL 232*	Anatomy and Physiology .....	4
- SOC 205	General Sociology .....	3
- GSCI 161	Medical Terminology I .....	3
- EMT 152	EMT Basic 2.....	5
- EMT 169	EMT Rescue .....	3
- Spring Quarter		
- BIOL 233*	Anatomy and Physiology .....	4
- CJ 203	Crisis Intervention.....	3

\*These courses have prerequisites.

**Total Number of Credits in Certificate .....47**

## Engineering (Pre) Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science  
**Department Chair:** Dr. Marie Strunk (ext. 347)  
**Advising:** Dr. Rick Reynolds (ext. 323)

This degree fulfills the general education block transfer in Idaho and Oregon. At least 90 transferable credits and a minimum **grade point average of 2.0** are needed for graduation.

The following courses are recommended for students interested in pursuing a degree in Engineering at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 Credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science) Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Pre-Engineering emphasis courses fulfill a portion of the distribution requirements.

### RECOMMENDED ELECTIVES

- DRFT 167 Computer Aided Drafting I
- DRFT 112 General Drafting
- CS 161, 162 Intro to Computer Science I & II

### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

### RECOMMENDED COURSES FOR PRE-ENGINEERING EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CHEM 221*	College Chemistry .....	5
- MATH 111	College Algebra .....	4
• <b>Winter Quarter</b>		
- CHEM 222*	College Chemistry .....	5
- MATH 112*	Elementary Functions .....	4
• <b>Spring Quarter</b>		
- CHEM 223*	College Chemistry .....	5
- MATH 113*	Pre-Calculus .....	4

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- MATH 251*	Calculus I.....	5
- PHYS 211*	Classical Physics I .....	5
• <b>Winter Quarter</b>		
- MATH 252*	Calculus II.....	5
- PHYS 212*	Classical Physics II .....	5
• <b>Spring Quarter</b>		
- MATH 253*	Calculus III.....	5
- PHYS 213*	Classical Physics III .....	5

NOTE: If students are Calculus ready, they should take Calculus the first year.

\* Indicates course is on the distribution list. See page 31 for guidelines.

### English Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** English

**Department Chair:** Dennis Gill (ext. 220)

**Advising:** Dennis Gill (ext. 220)

This degree fulfills the general education block transfer in Idaho and Oregon. At least 90 transferable credits and a minimum **grade point average of 2.0** are needed for graduation.

The following courses are recommended for students interested in pursuing a degree in English at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 Credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech **or**
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended English emphasis courses fulfill a portion of the distribution requirements.

#### RECOMMENDED ELECTIVES

- R 201 World Religions
- WR 241\*, 242\*, 243\* Intro to Imaginative Writing
- HIST 101\*, 102\*, 103\* History of World Civilization

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR ENGLISH EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- ENG 107*	Intro to World Literature <b>or</b>	
- ENG 201*	Intro to Shakespeare.....	3
• <b>Winter Quarter</b>		
- ENG 108*	Intro to World Literature <b>or</b>	
- ENG 202*	Intro to Shakespeare.....	3
• <b>Spring Quarter</b>		
- ENG 109*	Intro to World Literature <b>or</b>	
- ENG 203*	Intro to Shakespeare.....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- ENG 253*	Survey of American Literature.....	3
- HUM 148*	Intro to Humanities.....	3
- PHIL 101	Philosophical Problems.....	3
• <b>Winter Quarter</b>		
- ENG 195*	Film Studies.....	3
- ENG 254*	Survey of American Literature.....	3
- HUM 149*	Intro to Humanities.....	3
• <b>Spring Quarter</b>		
- ENG 255*	Survey of American Literature.....	3
- HUM 150*	Intro to Humanities.....	3
- ENG 260*	Intro to Women Writers.....	3

\* Indicates course is on the distribution list. See page 31 for guidelines.

### Geology Emphasis ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science  
**Department Chair:** Dr. Marie Strunk (ext. 347)  
**Advising:** Bill Strowd (ext. 222)

This degree fulfills the general education block transfer in Idaho and Oregon. At least 90 transferable credits and a minimum **grade point average of 2.0** are needed for graduation.

The following courses are recommended for students interested in pursuing a degree in Geology at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 Credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 112 Persuasive Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Geology emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR GEOLOGY EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- MATH 111	College Algebra .....	4
- GEOL 201*	Physical Geology .....	4
- BIOL 211*	Biology .....	5
• <b>Winter Quarter</b>		
- GEOL 202*	Physical Geology .....	4
- MATH 112*	Elementary Functions .....	4
- MATH 243	Statistics.....	4
• <b>Spring Quarter</b>		
- MATH 113*	Pre-Calculus .....	4
- GEOL 203*	Historical Geology .....	4

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- MATH 251*	Calculus I.....	5
- PHYS 211*	Classical Physics I .....	5
- CHEM 221*	College Chemistry .....	5
• <b>Winter Quarter</b>		
- PHYS 212*	Classical Physics II .....	5
- MATH 252*	Calculus II.....	5
- CHEM 222*	College Chemistry .....	5
• <b>Spring Quarter</b>		
- PHYS 213*	Classical Physics III .....	5
- MATH 253*	Calculus III.....	5
- CHEM 223*	College Chemistry .....	5

\* Indicates course is on the distribution list. See page 31 for guidelines.

# GEOGRAPHIC INFORMATION SYSTEMS TECHNOLOGY APPLICATIONS

Associate of Applied Science Degree

## Geographic Information Systems Technology Applications

### Applications

ASSOCIATE OF APPLIED SCIENCE DEGREE

Department: Natural Resources  
 Advising: Marcus Nichols (ext. 260)

#### PROGRAM OVERVIEW

This program prepares students for employment as technicians and provides a theoretical basis for understanding the use of GIS and its place in analysis and decision-making. ESRI Arc GIS is the platform for coursework. Focus opportunities for students include Agriculture, Natural Resources, Geography, or Heavy Equipment applications. Successful completion of the program will prepare students for employment in their focus area which includes county and city planning, engineering, survey, and GIS department; Agriculture applications; and Construction/Heavy Equipment.

Students successfully completing the first year of the program may apply for various industry certifications, depending on their selected focus area. Students successfully completing year two of the program may apply for an Associate of Applied Science degree in GIS Technology.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a minimum **grade point average of 2.0** are needed to graduate.

#### LEARNING OUTCOMES

Students who complete the degree will be able to:

- Read and design maps.
- Demonstrate critical thinking skills in solving geospatial problems.
- Demonstrate how GIS can benefit fields of study through data storage and spatial analysis.
- Appropriately incorporate GPS, CAD, and historical paper-based record data into a GIS.
- Construct a clear, presentable cartographic product that addresses a geospatial issue.

#### RELATED EDUCATION REQUIREMENTS (11 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test

scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Workplace Communications
- **Computation Skills (4 credits)**
  - MATH 70 Algebra Review (or above)
- **Human Relations Skills (4 credits)**
  - BA 204 Teamwork Dynamics
  - INED 156 Employment Strategies

#### FOCUS ELECTIVES (12-27)

A variety of focus opportunities are available. See the table at the bottom of this page for options and course lists.

#### REQUIRED COURSES FOR GIS TECHNOLOGY APPLICATIONS (39 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

COURSE #	COURSE TITLE	CREDITS
<b>Fall Quarter</b>		
- DRFT 112	General Drafting .....	3
- NATR 105	Field Methods in Natural Resources .....	3
- CS 120	Computer Concepts .....	4
<b>Winter Quarter</b>		
- GEOG 265	Geographic Info Systems (GIS) I .....	4
- NATR 140	Map Use and Analysis .....	4
<b>Spring Quarter</b>		
- GEOG 285	Geographic Info Systems (GIS) II .....	4
- NATR 112	Global Positioning Systems (GPS) .....	2
- GEOG 101	Physical Geography .....	4

#### YEAR 2

COURSE #	COURSE TITLE	CREDITS
<b>Fall Quarter</b>		
- DRFT 167	Computer Aided Design I .....	4
<b>Winter Quarter</b>		
- DRFT 168	Computer Aided Design II .....	4
<b>Spring Quarter</b>		
- DRFT 136	GIS Applications .....	3

**Total Number of Credits in Degree .....90**

#### FOCUS ELECTIVES (TO TOTAL 90 CREDITS)

##### AGRICULTURE

- AET 211 Engineering Problems
- AG 201 Current Issues in Ag.
- AG 211 Survey and Construction
- CSS 205 General Soils
- CSS 210 Forage Production
- CSS 240 Noxious Weeds

##### GEOGRAPHY

- DRFT 131 GIS Terrain Map
- DRFT 132 GIS Ntwk Modeling
- DRFT 133 GIS Spatial Analysis
- DRFT 134 Map Project./Coord.
- DRFT 135 Intro to Visual Basic

##### NATURAL RESOURCES

- FOR 111 Intro to Forestry
- FWR 101 Nat. Res. Seminar
- FWR 111 Intro to Nat. Res.
- NATR 106 Intro to Fire Effects
- NATR 217 Watershed Mgmt.
- NATR 241 Range Management
- NATR 252 Wildlife Management

##### HEAVY EQUIPMENT OPERATOR

- HEO 100 Heavy Equipment Basics
- HEO 107 Adv. Heavy Equip. Truck Dr.
- HEO 101 Heavy Equip. Basics I **and**
- HEO 104 Adv. Heavy Equip. Basics OR
- HEO 102 Heavy Equip. Basics II **and**
- HEO 105 Adv. Heavy Equip. Basics II OR
- HEO 103 Heavy Equip. Basics III **and**
- HEO 106 Adv. Heavy Equip. Basics III

## History Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Social Science  
**Department Chair:** Debbie Skousen (ext. 287)  
**Advising:** Gerry Hampshire (ext. 361)

This degree fulfills the general education block transfer in Idaho and Oregon. At least 90 transferable credits and a minimum **grade point average of 2.0** are needed for graduation.

The following courses are recommended for students interested in pursuing a degree in History at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 Credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended History emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR HISTORY EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- HIST 201*	US History .....	3
- POSC 201*	American Government .....	3
• <b>Winter Quarter</b>		
- HIST 202*	US History .....	3
- POSC 202*	American Government .....	3
• <b>Spring Quarter</b>		
- HIST 203*	US History .....	3
- POSC 203*	American Government .....	3
- ANTH 110*	Cultural Anthropology .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- HIST 101*	History of Western Civilization .....	3
- ETHN 101*	Ethnic Studies .....	3
- ENG 253*	Survey of American Literature <u>or</u>	
- ENG 107*	Survey of World Literature.....	3
• <b>Winter Quarter</b>		
- HIST 102*	History of Western Civilization .....	3
- ETHN 102*	Ethnic Studies .....	3
- ENG 254*	Survey of American Literature <u>or</u>	
- ENG 108*	Survey of World Literature.....	3
• <b>Spring Quarter</b>		
- HIST 103*	History of Western Civilization .....	3
- ETHN 103*	Ethnic Studies .....	3
- GEOG 105*	Intro to Cultural Geography.....	3

\* Indicates course is on the distribution list. See page 31 for guidelines.

# HORSE PRODUCTION AND TRAINING

## Associate of Applied Science Degree

### Horse Production and Training

#### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Agriculture  
**Advising:** Sonny Hansen (ext. 305)

#### PROGRAM OVERVIEW

This program prepares students for a variety of careers in horse production, including horse trainer, horse breeder, farrier, and small ranch operator. The program combines theory with practical skills needed for daily horse ranch operations. Student will learn the foundations of equine production practices as well as have hands-on experience working with ranch livestock.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to specific programs at a four-year college or university. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution. A minimum of 90 credits and a minimum 2.0 grade point average are needed to graduate.**

#### DUAL CREDIT (2+2)

Students will receive credit for agriculture classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, AG 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### LEARNING OUTCOMES

Students who complete the degree will be prepared to:

- Demonstrate ability to establish and manage an equine breeding program.
- Administer a vaccination and parasite control management plan.
- Demonstrate the ability to design and operate a working equine facility.
- Halter break, green break, and train a working cow horse for ranch use.
- Correctly trim and shoe a horse.

#### RELATED EDUCATION REQUIREMENTS (10 CREDITS)

Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Technical Writing
- **Computation Skills (3 credits)**
  - AET 211 Engineering Problems
- **Human Relations Skills (4 credits)**
  - PSYCH 101 Psychology of Human Relationships
  - INED 156 Employment Strategies

### REQUIRED COURSES FOR HORSE PRODUCTION AND TRAINING (84 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- ANS 192	Horsemanship .....	3
- ANS 220	Intro to Horse Production .....	3
- ANS 121	Intro to Animal Science .....	3
- ANS 122	Intro to Animal Science Operations .....	1
- ANS 200	Livestock Skills .....	3
- AG 207	Agriculture Seminar .....	1
- ANS 141	Basic Halter Training .....	3
<b>• Winter Quarter</b>		
- AG 111	Agriculture Computers .....	3
- ANS 222	Equine Health and Disease .....	3
- ANS 142	Green Breaking .....	4
- ANS 107	Basic Hoof Maintenance .....	3
- ANS 108	Advanced Horseshoeing .....	3
<b>• Spring Quarter</b>		
- ANS 143	Advanced Horse Training .....	3
- ANS 295	Reining .....	2
- ANS 277	Equine Reproduction .....	2
- AG	Any Agriculture Elective .....	3
- HPE 120	First Aid & CPR .....	2

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- ANS 223	Equine Business & Marketing .....	3
- AET 221	Shop Skills .....	3
- AREC 210	Farm Business Management .....	3
- AG	Any Agriculture Elective .....	3
<b>• Winter Quarter</b>		
- CSS 210	Forage Production .....	3
- ANS 263	Building and Stable Management .....	3
- ANS 297	Working Cow-Horse .....	3
- ANS 211	Applied Animal Nutrition .....	3
<b>• Spring Quarter</b>		
- HPRD 104	Timed Events I .....	3
- AG 201	Current Issues in Agriculture .....	1
- ANS 210	Feed and Ration Formulation .....	3
- ANS 294	Cow Cutting .....	2
- AG 280	Cooperative Work Experience .....	3
- AG	Any Agriculture Elective .....	3

**Total Number of Credits in Degree .....94**

## **Pre-Law Emphasis**

### **ASSOCIATE OF ARTS TRANSFER DEGREE**

**Department:** English

**Department Chair:** Dennis Gill (ext. 220)

**Advising:** Dennis Gill (ext. 220)

Every law school in Oregon (University of Oregon, Lewis and Clark College of Law, and Willamette University College of Law) requires a baccalaureate degree as a prerequisite for admission. Generally law schools do not require a particular pre-law major. However, most law schools will review pre-law majors, minors, courses and curricula for critical thinking and intellectual content. While no one major is required, well developed communication, writing and research skills are emphasized. Common majors for students applying to law school are economics, political science, history, English, business, and accounting.

In selecting a pre-law major, students may want to consider particular areas in the practice of law such as government or political science, business and corporate sciences, criminal justice, or accounting and tax. It is important to choose a major that fits the student's interests while encouraging intellectual growth. Admission to law school is based on academic achievement, employment experience, extra-curricular activities and performance on the Law School Admission Test (LSAT). A personal interview with the applicant and letters of recommendation may also be requested by the law school prior to admission.

TVCC students interested in pre-law should study for the Associate of Arts degree and obtain information on a major field of study within the framework of baccalaureate degree program from the four-year institution to which the student will later transfer. In preparation for transfer, students should consult with their TVCC advisor and with an advisor at the college or university to which they intend to transfer for any special requirements or additional coursework.

### Mathematics Emphasis ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Mathematics

**Department Chair:** Dr. Renae Weber (ext. 212)

**Advising:** Dr. Renae Weber (ext. 212); Pat Rhodes (ext. 431); Dr. Rick Reynolds (ext. 323); David Reynolds (ext. 211); Drake Wallick (ext. 297); Greg Borman (ext. 7216)

This degree fulfills the general education block transfer in Idaho and Oregon. At least 90 transferable credits and a minimum **grade point average of 2.0** are needed for graduation.

The following courses are recommended for students interested in pursuing a degree in Mathematics at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Mathematics emphasis courses fulfill a portion of the distribution requirements.

#### RECOMMENDED ELECTIVES

- CS 161, 162 Computer Science I, II
- MATH 103 Intro to Graphing Calculators

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

### RECOMMENDED COURSES FOR MATHEMATICS EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- MATH 111	College Algebra .....	4
- CS	Any Computer Science .....	4
• <b>Winter Quarter</b>		
- MATH 113*	Elementary Functions .....	4
- MATH 243*	Intro to Probability & Statistics I .....	4
• <b>Spring Quarter</b>		
- MATH 112*	Pre-Calculus .....	4
- MATH 244*	Intro to Probability & Statistics II .....	4

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- MATH 251*	Calculus I.....	5
- PHYS 211*	Classical Physics I .....	5
• <b>Winter Quarter</b>		
- MATH 252*	Calculus II.....	5
• <b>Spring Quarter</b>		
- MATH 253*	Calculus III.....	5

\* Indicates course is on the distribution list. See page 31 for guidelines.

## Pre-Medicine Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science  
**Department Chair:** Dr. Marie Strunk (ext. 347)  
**Advising:** Kerby Winters (ext. 369)

The following courses are recommended for students interested in pursuing a degree in Pre-Medicine at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Pre-Medicine emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR PRE-MEDICINE EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BIOL 211*	College Biology .....	5
- CHEM 221*	College Chemistry .....	5
- MATH 111	College Algebra .....	4
• <b>Winter Quarter</b>		
- BIOL 212*	College Biology .....	5
- CHEM 222*	College Chemistry .....	5
- MATH 112*	Elementary Functions .....	4
- PSYC 201*	General Psychology.....	3
• <b>Spring Quarter</b>		
- BIOL 213*	College Biology .....	5
- BIOL 234*	Microbiology .....	4
- CHEM 223*	College Chemistry .....	5
- PSYC 202*	General Psychology.....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CHEM 227	Organic Chemistry .....	5
- BIOL 231*	Anatomy and Physiology .....	4
- PHYS 201*	General Physics I.....	4
- MATH 251*	Calculus I.....	5
• <b>Winter Quarter</b>		
- CHEM 228	Organic Chemistry .....	5
- BIOL 232*	Anatomy and Physiology .....	4
- PHYS 202*	General Physics II.....	4
- MATH 252*	Calculus II.....	5
• <b>Spring Quarter</b>		
- CHEM 229	Organic Chemistry .....	5
- BIOL 233*	Anatomy and Physiology .....	4
- PHYS 203*	General Physics III.....	4
- MATH 253*	Calculus III.....	5

\* Indicates course is on the distribution list. See page 31 for guidelines.

### Music Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Fine and Performing Arts

**Department Chair:** Robin Jackson (ext. 270)

**Advising:** Bob Armstrong (ext. 295); Rebecca Replogle (ext. 296)

This degree fulfills the general education block transfer in Idaho and Oregon. At least 90 transferable credits and a minimum **grade point average of 2.0** are needed for graduation.

The following courses are recommended for students interested in pursuing a degree in Music at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some Music emphasis courses and some of the recommended electives fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES

- MUS 101, 201\*, 202\*, 203\*, 205\*

#### RECOMMENDED COURSES FOR MUSIC EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- MUS 111*	Music Theory I .....	4
- MUS 114	Sight Singing/Ear Training .....	1
- MUP 171-192	Applied Music (Lessons) .....	1
- MUP 201-231	Ensemble .....	1
- MUS 131	Class Piano .....	2
<b>• Winter Quarter</b>		
- MUS 112*	Music Theory I .....	4
- MUS 115	Sight Singing/Ear Training .....	1
- MUP 171-192	Applied Music Instruction .....	1
- MUP 201-231	Ensemble .....	1
- MUS 132	Class Piano .....	2
<b>• Spring Quarter</b>		
- MUS 113*	Music Theory I .....	4
- MUS 116	Sight Singing/Ear Training .....	1
- MUP 171-192	Applied Music Instruction .....	1
- MUP 201-231	Ensemble .....	1
- MUS 133	Class Piano .....	2

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- MUS 211	Music Theory II .....	4
- MUS 214	Keyboard Harmony .....	2
- MUP 271-292	Applied Music Instruction .....	1
- MUP 201-231	Ensemble .....	1
<b>• Winter Quarter</b>		
- MUS 212	Music Theory II .....	4
- MUS 215	Keyboard Harmony .....	2
- MUP 271-292	Applied Music Instruction .....	1
- MUP 201-231	Ensemble .....	1
<b>• Spring Quarter</b>		
- MUS 213	Music Theory II .....	4
- MUS 216	Keyboard Harmony .....	2
- MUP 271-292	Applied Music Instruction .....	1
- MUP 201-231	Ensemble .....	1

\* Indicates course is on the distribution list. See page 31 for guidelines.

## Natural Resources At A Glance

Students interested in careers in natural resources, environmental technology, fisheries and wildlife, and wildland fire can pursue several different educational options, depending on their career goals. Students may see their Natural Resources program advisor for assistance in determining the option that best meets the student's needs.

**Advising:** Marcus Nichols (ext. 260)

### ASSOCIATE OF APPLIED SCIENCE DEGREES AND CERTIFICATES

Students wishing to directly enter the workforce after their educational experience at TVCC should consider either a two year Associate of Applied Science Degree or a certificate program. These options are not designed to transfer to a four year institution, although some individual courses are transferable. Students wishing to transfer coursework should work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution.

#### ASSOCIATE OF APPLIED SCIENCE DEGREES

*Natural Resources*

*Natural Resources Wildland Fire*

#### CERTIFICATES

*Environmental Technician*

*Natural Resources Wildland Fire*

### ASSOCIATE OF SCIENCE DEGREES

Students planning to transfer to a four-year college or university in natural resources are advised to complete one of the Associate of Science Degrees in various areas of natural resources emphasis. Each Associate of Science Degree is closely articulated with natural resource departments at Oregon State University and/or University of Idaho.

Associate of Science degrees include specified general education courses, core natural resource courses and recommended electives, depending on the discipline emphasis. Students planning to transfer should follow the specified degree plan for the Associate of Science Degree they wish to pursue.

TVCC offers the following Associate of Science Degrees articulated with:

#### OREGON STATE UNIVERSITY

*Natural Resources*

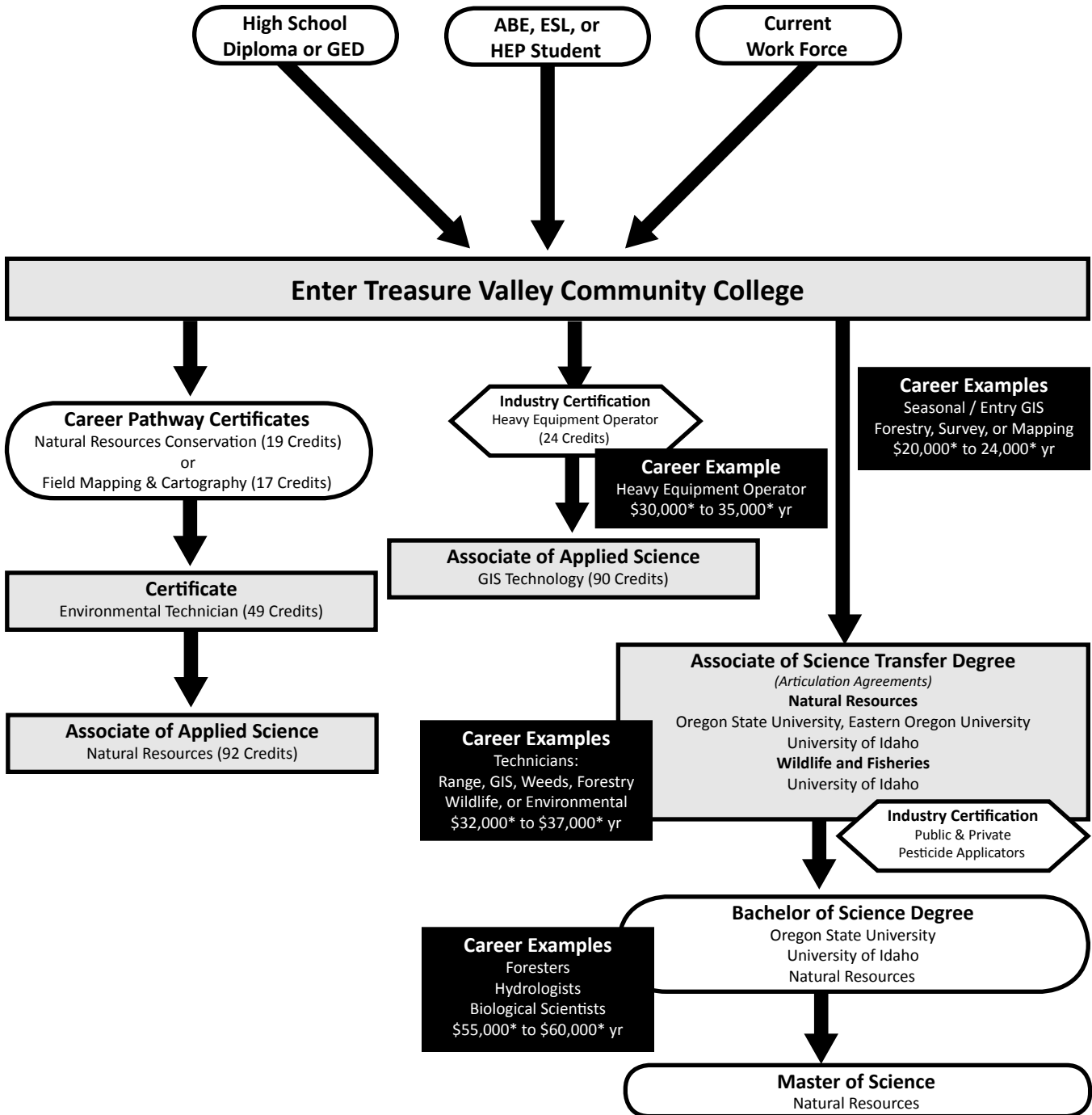
#### UNIVERSITY OF IDAHO

*Natural Resources*

*Natural Resources Wildlife and Fisheries*

## Natural Resources Career Pathway Options

Department: Natural Resources  
 Advising: Marcus Nichols (ext. 260)



\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

# CARTOGRAPHY AND FIELD MAPPING TECHNICIAN

*Career Pathway Certificate*

## Natural Resources Cartography and Field Mapping Technician CAREER PATHWAY CERTIFICATE

**Department:** Natural Resources  
**Advising:** Marcus Nichols (ext. 260)

### PROGRAM OVERVIEW

This Career Pathway Certificate prepares students for entry level work as an entry level work as a Field Mapping or GIS/GPS Technician with a focus on the natural resources industry. All courses in this Career Pathway may be transferred into the on-year Environmental Technician certificate or the Associate of Applied Science Degrees in either Natural Resources or Geographic Information Systems.

### REQUIRED COURSES FOR CARTOGRAPHY AND FIELD MAPPING TECHNICIAN (15 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- NATR 105	Field Methods in Natural Resources.....	3
• <b>Winter Quarter</b>		
- NATR 140	Map Use and Analysis.....	4
- GEOG 265	Geographic Information Systems (GIS) I.....	3
• <b>Spring Quarter</b>		
- GEOG 285	Geographic Information Systems (GIS) II.....	3
- NATR 112	Global Positioning Systems (GPS) .....	2

**Total Number of Credits in Certificate .....15**

# NATURAL RESOURCES

## Associate of Applied Science Degree

### Natural Resources

#### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Natural Resources  
**Advising:** Marcus Nichols (ext. 260)

#### PROGRAM OVERVIEW

Successful completion of this degree program provides students with a broad base of skills related to a career in Natural Resources. The Natural Resources Associate of Applied Science degree program offers training in the areas of Invasive Species (Noxious Weeds); Range Management, and Forestry, as well as an introduction to GPS/GIS and Recreation and Wildlife. Successful graduates of this program may secure entry level positions as seasonal, temporary, or permanent employees for state and federal agencies, or private industry.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to specific programs at a four-year college or university. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a **minimum 2.0 grade point average** are needed to graduate.

#### LEARNING OUTCOMES

Students who complete the degree will be prepared to:

- Evaluate environments including - How succession works; Why plants and animals live where they do; How to manipulate habitats for desired results; and Understanding the hydrological cycle and how it affects natural resources.
- Utilize forestry equipment (relaskop, diameter tapes, cruiser sticks, levels, increment borers, and tapes).
- Locate a site using GPS, map reading, aerial photos, and the location of corners on the rectangular survey system.
- Identify noxious weeds, range plants, forest plants, and shrubs.
- Demonstrate the ability to apply multiple use concepts including grazing, recreation, and wildlife in public land management.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, NATR 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### DUAL CREDIT (2+2)

Students will receive credit for Natural Resources classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### RELATED EDUCATION REQUIREMENTS (13 CREDITS)

Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (6 credits)**
  - WR 101 Workplace Communications
  - SP 111 Fundamentals of Speech
- **Computation Skills (3 credits)**
  - AET 211 Engineering Problems

- **Human Relations Skills (4 credits)**
  - PSYC 101 Psychology of Human Relations
  - INED 156 Employment Strategies

#### REQUIRED COURSES FOR NATURAL RESOURCES (78 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- FWR 101	Natural Resource Seminar .....	1
- NATR 111	Intro to Natural Resources .....	5
- NATR 105	Field Methods in Natural Resources .....	3
- CS 120	Computer Concepts .....	4
<b>• Winter Quarter</b>		
- CSS 217	Pesticide Safety and Use .....	1
- GEOG 265	Geographic Information Systems (GIS) I .....	4
- NATR 221	Intro to Natural Resource Ecology .....	3
- NATR 140	Map Use and Analysis .....	4
<b>• Spring Quarter</b>		
- GEOG 285	Geographic Information Systems (GIS) II .....	4
- NATR 103	Applied Forest/Range Botany .....	3
- CSS 240	Intro to Noxious Weeds .....	3
- NATR 112	Global Positioning Systems (GPS) .....	2
<b>• Summer Quarter</b>		
- NATR 280	Natural Resources Work Experience .....	6

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- DRFT 167	Computer Aided Design I .....	4
- HPE 120	First Aid & CPR .....	2
- FOR 111	Introduction to Forestry .....	3
- NATR 106	Intro to Fire Effects .....	3
<b>• Winter Quarter</b>		
- NATR 101	S-130 Firefighter Training .....	1
- NATR 101	S-190 Intro to Fire Behavior .....	1
- NATR 101	I-100 Standards for Survival .....	1
- NATR 102	L-280 Followership to Leadership .....	2
- NATR 104	S-290 Intermediate Fire Behavior .....	3
- NATR 108	S-270 Basic Air Operations .....	2
- NATR 251	Recreation Resource Management .....	3
- NATR 252	Intro to Wildlife Management .....	3
<b>• Spring Quarter</b>		
- NATR 217	Intro to Watershed Management .....	3
- NATR 241	Intro to Range Management .....	4

**Total Number of Credits in Degree .....90**

### Natural Resources Emphasis

#### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO OREGON STATE UNIVERSITY

**Department:** Natural Resources  
**Advising:** Marcus Nichols (ext. 260)

This degree fulfills many of the general education requirements for transfer to Oregon State University. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate. Oregon universities require students who graduated high school after 1997 to have either two years at the high school level or two terms at the college level of a second language at entry.

The following courses are recommended for students interested in pursuing a degree in Natural Resources at Oregon State University and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at Oregon State University.

#### FOUNDATION SKILLS REQUIREMENTS (13 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (6 credits)**
  - WR 121, 122 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (27-30 CREDITS)

- **Literature and Arts: Choose one class from this area**
  - ART 101 Intro to Art
  - ENG 104, 105, 106 Intro to Literature
  - ENG 253, 254, 255 Survey of American Literature
  - MUS 201, 202, 203 Intro to Music & Its Literature
- **Western Culture: Choose one class from this area**
  - ENG 253, 254, 255 Survey of American Literature
  - HIST 101, 102, 103 History of Western Civilization
  - HIST 201, 202, 203 History of the United States
- **Social Processes:**
  - ECON 201, 202 Principles of Economics: Micro/Macro AND Choose one class from these areas
  - PSYC 201, 202 General Psychology
  - SOC 204, 206 General Sociology
- **Science/Math/Computer Science: Choose one sequence**
  - CHEM 121, 122, 123 General Chemistry
  - BIOL 211, 212, 213 Biology

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES

- NATR 280 Cooperative Work Experience
- CSS 205 General Soils
- CS 120 Computer Concepts
- CSS 217 Pesticide and Safety Use

#### REQUIRED COURSES FOR NATURAL RESOURCES (51 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- FWR 101	Natural Resource Seminar .....	1
- NATR 111	Intro to Natural Resources .....	5
- NATR 105	Field Methods in Natural Resources .....	3
<b>• Winter Quarter</b>		
- NATR 140	Map Use and Analysis .....	4
- GEOG 265	Geographic Info Systems (GIS) I .....	4
- NATR 221	Intro to Natural Resources Ecology .....	3
<b>• Spring Quarter</b>		
- NATR 103	Applied Forest/Range Botany .....	3
- GEOG 285	Geographic Info Systems (GIS) II .....	4
- NATR 112	Global Positioning Systems (GPS) .....	2
- CSS 240	Intro to Noxious Weeds .....	3

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- NATR 106	Intro to Fire Effects .....	3
- FOR 111	Introduction to Forestry .....	3
<b>• Winter Quarter</b>		
- NATR 251	Recreation Resource Management .....	3
- NATR 252	Introduction to Wildlife Management .....	3
<b>• Spring Quarter</b>		
- NATR 217	Intro to Watershed Management .....	3
- NATR 241	Intro to Range Management .....	4

# NATURAL RESOURCES

Associate of Science Transfer Degree to University of Idaho

## Natural Resources Emphasis

### ASSOCIATE OF SCIENCE TRANSFER DEGREE TO UNIVERSITY OF IDAHO

**Department:** Natural Resources  
**Advising:** Marcus Nichols (ext. 260)

This degree fulfills the general education block transfer to University of Idaho. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Natural Resources at University of Idaho and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at University of Idaho.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses. Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122 English Composition
  - WR 227 Technical Report Writing
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (33-36 CREDITS)

- **Arts and Letters: Choose any three classes**
  - ART 101 Intro to Art
  - MUS 201, 202, 203 Intro to Music & Its Literature
  - ENG 104, 105, 106 Intro to Literature
  - ENG 201, 202, 203 Shakespeare
  - ENG 253, 254, 255 Survey of American Literature
  - HUMN 148, 149, 150 Intro to Humanities
- **Social Science: Choose four classes from**
  - Economics, History, Political Science, Psychology, Sociology
- **Science/Math/Computer Science: Choose one sequence**
  - CHEM 121, 122, 123 General Chemistry
  - BIOL 211, 212, 213 Biology

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES

- NATR 280 Natural Resources Work Experience.
- CS 120 Computer Concepts
- CHEM 227 Organic Chemistry
- PHYS 201 General Physics

## RECOMMENDED COURSES FOR NATURAL RESOURCES DEGREE (51 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- FWR 101	Natural Resource Seminar .....	1
- NATR 111	Intro to Natural Resources.....	5
- NATR 105	Field Methods in Natural Resources.....	3
• <b>Winter Quarter</b>		
- NATR 140	Map Use and Analysis.....	4
- GEOG 265	Geographic Info Systems (GIS) I.....	4
- NATR 221	Intro to Natural Resources Ecology.....	3
• <b>Spring Quarter</b>		
- NATR 103	Applied Forest/Range Botany .....	3
- NATR 112	Global Positioning Systems.(GPS) .....	2
- GEOG 285	Geographic Info Systems (GIS) II.....	4

### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- NATR 106	Intro to Fire Effects .....	3
- FOR 111	Introduction to Forestry.....	3
• <b>Winter Quarter</b>		
- NATR 252	Intro to Wildlife Management .....	3
- NATR 251	Recreational Resource Management.....	3
• <b>Spring Quarter</b>		
- NATR 217	Intro to Watershed Management.....	3
- CSS 240	Intro to Noxious Weeds .....	3
- NATR 241	Intro to Range Management.....	4

## Natural Resources Conservation CERTIFICATE

**Department:** Natural Resources  
**Advising:** Marcus Nichols (ext. 260)

### PROGRAM OVERVIEW

This Career Pathway Certificate prepares students for entry level, seasonal working in forestry, fish & game, fire, range, or invasive species, with a focus on the natural resources industry. All courses in this Career Pathway may be transferred into the on-year Environmental Technician certificate or the Associate of Applied Science Degrees in either Natural Resources or Geographic Information Systems.

### REQUIRED COURSES FOR NATURAL RESOURCES CONSERVATION (19 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- FOR 111	Introduction to Forestry.....	3
<b>• Winter Quarter</b>		
- NATR 251	Recreation Resource Management .....	3
- NATR 252	Intro to Wildlife Management .....	3
<b>• Spring Quarter</b>		
- NATR 241	Intro to Range Management.....	4
- NATR 217	Intro to Watershed Management .....	3
- CSS 240	Intro to Noxious Weeds .....	3
<b>Total Number of Credits in Certificate .....</b>		<b>19</b>

# NATURAL RESOURCES ENVIRONMENTAL TECHNICIAN

## Certificate of Completion

### Natural Resources Environmental Technician CERTIFICATE (PENDING STATE APPROVAL)

Department: Natural Resources  
Advising: Marcus Nichols (ext. 260)

#### PROGRAM OVERVIEW

This certificate allows students to build fundamental knowledge in Natural Resources then customize their own education through three different concentrations. Students can choose from Field Mapping/Cartography and Natural Resource Conservation courses in order to create a customized program based on career goals. Successful graduates of this program may secure entry level positions as seasonal or temporary employees for state and federal agencies or private industry.

#### LEARNING OUTCOMES

Students who complete the Natural Resources Environmental Technician Certificate of Completion will be prepared to:

- Demonstrate knowledge of multiple natural resource career opportunities both academically and professionally.
- Demonstrate knowledge of regional natural sites, their accompanying wildlife, natural resources, and various management and conservation practices.
- Display general knowledge of rangeland resources, forest ecosystems, soil characteristics, regional plants, and ecological succession through practical lab work and written assessment.
- Navigate terrain with the use of aerial maps, GPS units, and topographical maps.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, NATR 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### RELATED EDUCATION REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (6 credits)**
  - WR 101 Workplace Communications
  - SP 111 Fundamentals of Speech
- **Computation Skills (3-4 credits)**
  - MATH 111 College Algebra *or*
  - AET 211 Engineering Problems(Math 111 recommended for students wishing to transfer)
- **Human Relations Skills (7 credits)**
  - INED 156 Employment Strategies
  - NATR 280 Cooperative Work Experience

#### CORE COURSES

Students are required to successfully pass all core courses.

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
- NATR 111	Intro to Natural Resources.....	5
- FWR 101	Natural Resources Seminar.....	1
- NATR 105	Field Methods in Natural Resources.....	3
- NATR 221	Intro to Natural Resources Ecology.....	3

Total Number of Credits in Core .....12

#### FOCUS ELECTIVES TO TOTAL 17 CREDITS

Students may customize coursework below to meet their individual educational needs, with instructor approval.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BIOL 211	College Biology .....	5
- FOR 111	Introduction to Forestry.....	3
• <b>Winter Quarter</b>		
- BIOL 212	College Biology .....	5
- GEOG 265	Geographic Information Systems (GIS) I .....	4
- NATR 140	Map Use and Analysis.....	4
- NATR 251	Recreation Resource Management .....	3
- NATR 252	Intro to Wildlife Management .....	3
• <b>Spring Quarter</b>		
- BIOL 213	College Biology .....	5
- CSS 240	Intro to Noxious Weeds .....	3
- AG 211	Survey & Construction .....	3
- GEOG 285	Geographic Information Systems (GIS) II .....	4
- NATR 103	Applied Forest/Range Botany .....	3
- NATR 112	Global Positioning Systems (GPS) .....	2
- NATR 217	Intro to Watershed Management .....	3
- NATR 241	Intro to Range Management.....	4

Total Number of Credits in Certificate .....45

# NATURAL RESOURCES WILDLAND FIRE

## *Certificate of Completion*

### Natural Resources Wildland Fire CERTIFICATE

**Department:** Natural Resources  
**Advising:** Marcus Nichols (ext. 260)

The Wildland Fire certificate prepares students for entry level seasonal jobs in fire-fighting for the Bureau of Land Management and the U.S. Forest Service, and other public and private agencies that manage firefighting on public lands. During summer quarter students can incorporate required NATR 280 (Cooperative Work Experience) with the work they are doing in the field. Students should make appropriate arrangements with their program advisor.

All courses in this certificate may be transferred into the Natural Resources Wildland Fire Associate of Applied Science Degree. A minimum **grade point average of 2.0** is required to obtain the certificate.

#### LEARNING OUTCOMES

Students who complete the Certificate of Completion will be prepared to:

- Identify the primary factors involved in the start and spread of wildfires.
- Demonstrate proper use of fire equipment and fire suppression techniques, including self-protection, for fighting forest and range wild fires.
- Correctly locate a site using GPS, Map Reading Aerial Photos and the location of corners on the rectangular survey system.

#### RELATED EDUCATION REQUIREMENTS (18 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (6 credits)**
  - WR 101 Workplace Communications
  - SP 111 Fundamentals of Speech
- **Computation Skills (3 credits)**
  - AET 211 Engineering Problems
- **Human Relations Skills (9 credits)**
  - INED 156 Employment Strategies
  - NATR 280 Cooperative Work Experience
  - NATR 102 L-280 Followership to Leadership

### REQUIRED COURSES FOR WILDLAND FIRE CERTIFICATE (39 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- FWR 101	Natural Resources Seminar .....	1
- NATR 105	Field Methods in Natural Resources .....	3
- FOR 111	Introduction to Forestry.....	3
- NATR 106	Intro to Fire Effects .....	3
• <b>Winter Quarter</b>		
- NATR 140	Map Use and Analysis.....	4
- NATR 101	S-130 Firefighter Training .....	1
- NATR 101	S-190 Intro to Fire Behavior .....	1
- NATR 101	L-100 Standards for Survival .....	1
- NATR 102*	L-280 Followership to Leadership .....	2
- GEOG 265	Geographic Information Systems (GIS) I .....	4
• <b>Spring Quarter</b>		
- NATR 103	Applied Forest/Range Botany .....	3
- NATR 112	Geographic Positioning Systems (GPS) .....	2
- NATR 104	S-290 Intermediate Fire Behavior .....	3
- NATR 107	S-260 Interagency Incident Business Mgmt.....	2
- CSS 240	Noxious Weeds .....	3
- NATR 108	S-270 Basic Air Operations .....	2
• <b>Summer Quarter</b>		
- NATR 280*	Natural Resources Coop Work Experience .....	6

\*These courses are part of Related Education Requirements.

**Total Number of Credits in Certificate .....54**

# NATURAL RESOURCES WILDLAND FIRE

## Associate of Applied Science Degree

### Natural Resources Wildland Fire

#### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Natural Resources  
**Advising:** Marcus Nichols (ext. 260)

#### PROGRAM OVERVIEW

This program prepares students for positions on fire crews including crew boss or member of the heli-tech team, with the Bureau of Land Management, the U.S. Forest Service, or other public and private agencies that manage firefighting on public lands. Students who pursue the degree are encouraged to obtain work as a beginning firefighter and to enroll for credit in NATR 280 (Cooperative Work Experience) in the summer between the freshman and sophomore years. The experience gained during the summer will be counted toward experience required by the hiring agencies and will give students an opportunity to obtain more advanced positions such as crew boss or helicopter tech team member.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a minimum **grade point average of 2.0** are needed to graduate.

#### LEARNING OUTCOMES

Students who complete the Natural Resources Wildland Fire Associate of Applied Science program will be prepared to:

- Identify the primary factors involved in the start and spread of wildfires.
- Demonstrate proper use of fire equipment and fire suppression techniques, including self-protection, for fighting forest and range wild fires.
- Correctly locate a site using GPS, Map Reading Aerial Photos and the location of corners on the rectangular survey system.
- Apply knowledge of firefighting and fire suppression and abatement behavior to make tactical decisions when confronting wild land fires that threaten lives, property and improvements in the wild land/urban interface. Includes size-up, initial strategy, structure triangle, tactics, action assessment, public relations, communications, mop up and follow up.
- Demonstrate the ability to assume leadership roles such as crew boss, engine boss, or squad boss.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, NATR 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### RELATED EDUCATION REQUIREMENTS (13 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (6 credits)**
  - WR 101 Business Communications

- SP 111 Fundamentals of Speech
- **Computation Skills (3 credits)**
  - AET 211 Engineering Problems
- **Human Relations Skills (4 credits)**
  - PSYC 101 Human Relations
  - INED 156 Employment Strategies

#### RECOMMENDED ELECTIVES (MINIMUM 9 CREDITS)

Students should meet with their advisor for a list of suggested electives.

#### REQUIRED COURSES FOR WILDLAND FIRE DEGREE (79 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- FWR 101	Natural Resource Seminar .....	1
- NATR 111	Intro to Natural Resources .....	5
- NATR 105	Field Methods in Natural Resources.....	3
• <b>Winter Quarter</b>		
- NATR 140	Map Use and Analysis.....	4
- NATR 101	S-130 Firefighter Training .....	1
- NATR 101	L-180 Human Factors .....	1
- NATR 101	S-190 Intro to Fire Behavior.....	1
- NATR 221	Natural Resource Ecology .....	3
• <b>Spring Quarter</b>		
- NATR 103	Applied Forest/Range Botany .....	3
- NATR 241	Intro to Range Management .....	4
- CSS 240	Intro to Noxious Weeds .....	3
• <b>Summer Quarter</b>		
- NATR 280	Cooperative Work Experience .....	6

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CSS 205	General Soils .....	3
- HPE 120	First Aid & CPR.....	2
- FOR 111	Introduction to Forestry.....	3
- NATR 106	Intro to Fire Effects .....	3
• <b>Winter Quarter</b>		
- NATR 252	Intro to Wildlife Management .....	3
- NATR 102	L-280 Followership to Leadership .....	2
- NATR 104	S-290 Intermediate Fire Behavior .....	3
- NATR 107	S-260 Interagency Incident Business Mgmt. ....	2
- NATR 108	S-270 Basic Air Operations .....	2
- GEOG 265	Geographic Information Systems (GIS) I.....	4
• <b>Spring Quarter</b>		
- NATR 112	Global Positioning Systems (GPS) .....	2
- NATR 202	Wildland Fire Chain Saws.....	2
- NATR 203	S-211 Portable Pumps & Water Use .....	2
- NATR 115	S-230 Crew Boss - Single Resource .....	2
- NATR 117	S-231 Engine Boss - Single Resource.....	1
- NATR 121	S-131 Squad Boss.....	1
- HPE 295	Health/Fitness for Life .....	3
- GEOG 285	Geographic Information Systems (GIS) II .....	4

**Total Number of Credits in Degree .....101**

# NATURAL RESOURCES WILDLIFE AND FISHERIES

*Associate of Science Transfer Degree to University of Idaho*

## Natural Resources Wildlife and Fisheries Emphasis

### ASSOCIATE OF SCIENCE DEGREE TRANSFER TO UNIVERSITY OF IDAHO

**Department:** Natural Resources  
**Advising:** Marcus Nichols (ext. 260)

This degree fulfills the general education block transfer to University of Idaho. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Wildlife and Fisheries at University of Idaho and include all requirements for the Associate of Science degree. **Students who wish to transfer are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at University of Idaho.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122 English Composition
  - WR 227 Technical Report Writing
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (34 CREDITS)

- **Arts and Letters: Choose any three classes**
  - ART 101 Intro to Art
  - MUS 201, 202, 203 Intro to Music & Its Literature
  - ENG 104, 105, 106 Intro to Literature
  - ENG 201, 202, 203 Shakespeare
  - ENG 253, 254, 255 Survey of American Literature
  - HUMN 148, 149, 150 Intro to Humanities
- **Social Science: Choose four classes from**
  - Economics, History, Political Science, Psychology, Sociology
- **Science: Complete sequence**
  - BIOL 211, 212, 213 Biology

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 32, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES

- CHEM 121, 122 General Chemistry
- CHEM 227 Organic Chemistry
- GEOL 201, 202 Physical Geology
- PHYS 201 General Physics
- MATH 243 Probability and Statistics
- NATR 103 Applied Forest/Range Botany
- NATR 106 Intro to Fire Effects
- NATR 280 Natural Resources Work Experience
- CS 120 Computer Concepts

#### RECOMMENDED COURSES FOR WILDLIFE AND FISHERIES EMPHASIS (48 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- FWR 101	Natural Resources Seminar.....	1
- NATR 111	Intro to Natural Resources.....	5
- NATR 105	Field Methods in Natural Resources.....	3
• <b>Winter Quarter</b>		
- NATR 140	Map Use & Analysis.....	4
- GEOG 265	Geographic Information Systems (GIS) I.....	4
- NATR 221	Intro to Natural Resources Ecology.....	3
• <b>Spring Quarter</b>		
- NATR 112	Global Positioning Systems (GPS).....	2
- GEOG 285	Geographic Information Systems (GIS) II.....	4
- CSS 240	Intro to Noxious Weeds.....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CSS 205	General Soils.....	3
- FOR 111	Introduction to Forestry.....	3
• <b>Winter Quarter</b>		
- NATR 252	Intro to Wildlife Management.....	3
- NATR 251	Recreational Resource Management.....	3
• <b>Spring Quarter</b>		
- NATR 217	Intro to Watershed Management.....	3
- NATR 241	Intro to Range Management.....	4

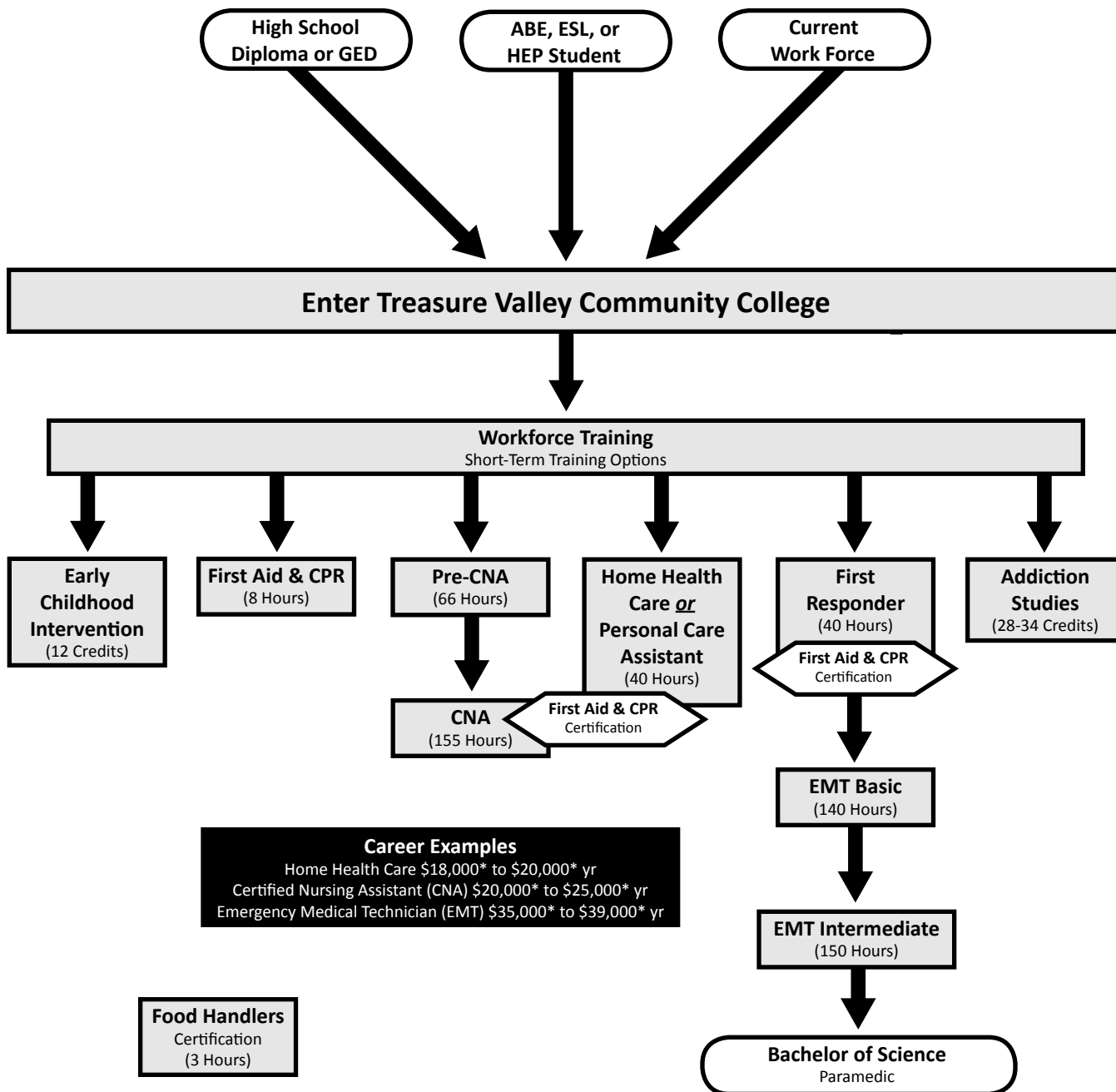
### Health Occupations Career Pathway Options

Department: Nursing

Department Chair: Maureen McDonough (ext. 345)

Nursing Advisors: Nursing Faculty (ext. 290 or 291)

Workforce Training: Linda Simmons (ext. 358)



\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

## Nursing

### PROGRAM OVERVIEW AND PRE-ACCEPTANCE COURSE REQUIREMENTS

**Department:** Nursing

**Department Chair:** Maureen McDonough

**Advising:** Nursing Faculty (ext. 345, 290)

#### PROGRAM OVERVIEW

The college offers a career ladder nursing curriculum that allows a student to exit upon successful completion of the first year, prepared to take the licensing examination for Practical Nursing (LPN). Successful completion of second year requirements allows the student to graduate with an Associate of Applied Science Degree in Nursing (RN) and to take the National Council Licensing Examination for Registered Nurses (NCLEX-RN).

Graduates completing the Associate of Applied Science Degree in Nursing (RN) may qualify for admission into Baccalaureate programs. However, transfer of credits is the prerogative of the Baccalaureate institution.

TVCC's nursing program is accredited by the Oregon State Board of Nursing. It provides a balance between general education (Social/Biological Science, Humanities) and nursing content. Students participate in learning theory and nursing skills in the classroom and campus laboratory as well as in community health care facilities.

The program has a state-of-the-art simulation laboratory where highly skilled faculty incorporate this new learning modality to enhance the academic and clinical experience of students.

#### PROGRAM ADMISSION

The nursing program is a restricted entry program. Students must apply for admission and meet the college and program criteria before being considered for acceptance. Specific nursing program requirements are available on the TVCC website. Application packets may be obtained in the Nursing Department office after January 1. Notification is made in May for students who will enter first year nursing classes in September or second year classes in June. All admitted students must pass a criminal background check and physical examination prior to entering the program.

Prospective students must attend a Nursing Program information session before beginning the advising and registration process and should call the Nursing Department at (ext. 289) for available dates and times. Students must be officially admitted to the Nursing Program before they may enroll in any nursing courses (NURS 101, etc).

#### ADVANCED PLACEMENT

As space permits, qualified LPN's may be admitted to the second year of the nursing program beginning with summer quarter (NURS 200). The candidate must have graduated from an accredited program with a 3.00 grade point average in nursing courses, have completed all of the first year general education requirements of the TVCC Nursing Program with a minimum GPA of 2.70 (no grade below a "C"), and be licensed in Oregon as a practical nurse. Preadmission testing is required. Evaluation of clinical skills may be required. Interested students should contact the Nursing Department for advising prior to application.

NOTE: Pre-nursing students are also strongly encouraged to be certified as Nursing Assistants in either Oregon or Idaho. Speak to your advisor for more information about TVCC's Nursing Assistant program.

#### PRE-NURSING COURSE REQUIREMENTS (43 CREDITS)

Pre-Nursing students are encouraged to take the following general education courses prior to application for admission to the Nursing Program.

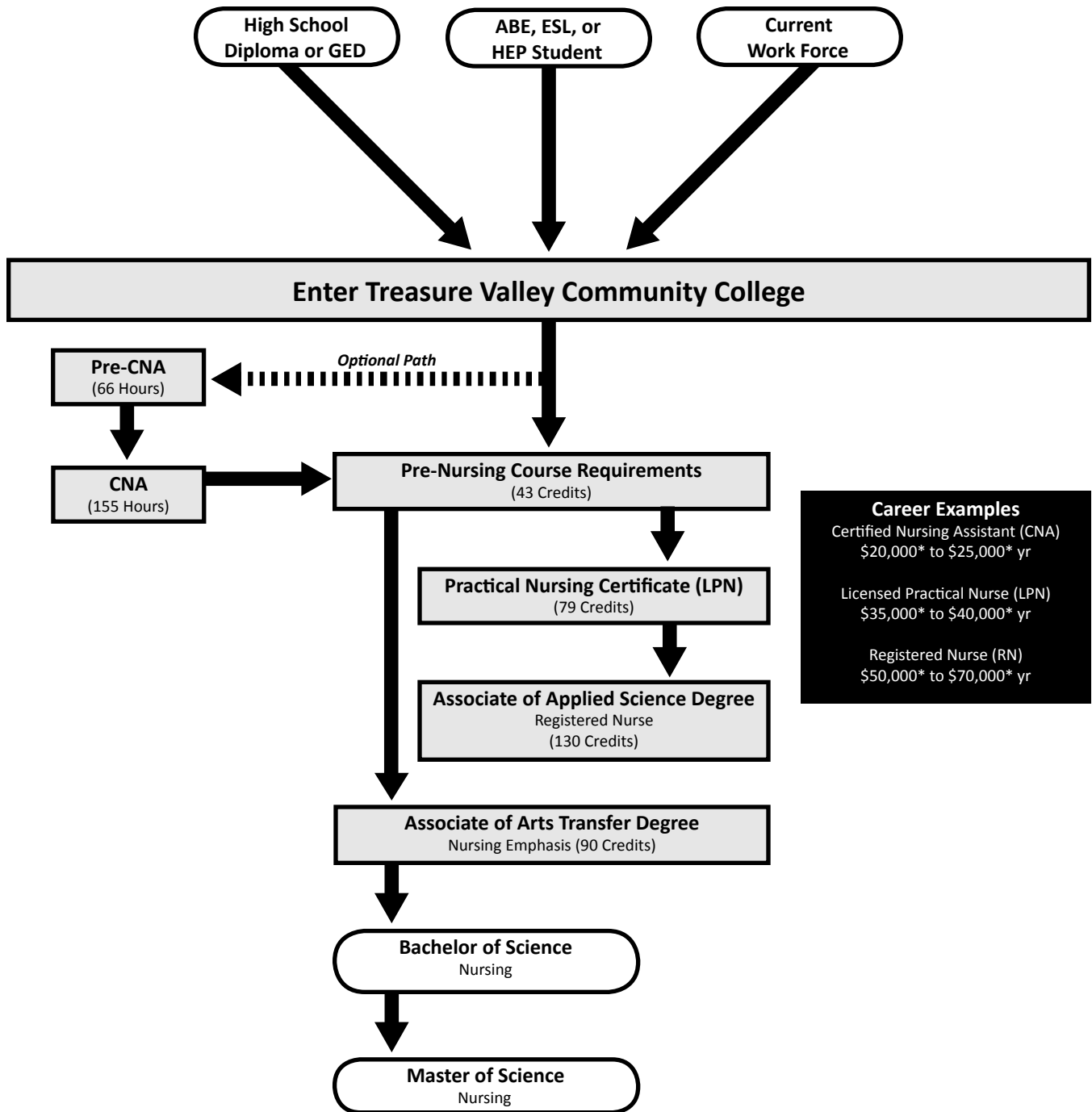
- MATH 95 or above must be completed with a minimum grade of "C" BY THE APPLICATION DEADLINE.
- WR 121, WR 122 English Composition and
- WR 123 English Composition or
- SP 111 Fundamentals of Speech or
- SP 219 Small Group Discussion
- PSYC 201 or 202 or 203 General Psychology
- BIOL 231, 232, 233 Anatomy & Physiology
- BIOL 234 Microbiology
- FNUT 225 Nutrition

- **A minimum of six credits from two of the following:**

- ETHN 101, 102, 103 Ethnic Studies
- ANTH 110 Cultural Anthropology
- SOC 204, 205, 206 Sociology
- PSYC 235, 236, 237 Human Growth and Development
- CS Any college level computer course

## Nursing Career Pathway Options

Department: Nursing  
 Department Chair: Maureen McDonough (ext. 345)  
 Nursing Advisors: Nursing Faculty (ext. 290 or 291)  
 Workforce Training: Linda Simmons (ext. 358)



**Career Examples**  
 Certified Nursing Assistant (CNA)  
 \$20,000\* to \$25,000\* yr  
 Licensed Practical Nurse (LPN)  
 \$35,000\* to \$40,000\* yr  
 Registered Nurse (RN)  
 \$50,000\* to \$70,000\* yr

\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

**Practical Nursing  
CERTIFICATE OF COMPLETION  
(PROGRAM YEAR 1)**

**LEARNING OUTCOMES**

- Apply facts and principles from biophysical/psychosocial sciences in the care of individuals in various stages of the life cycle with stable health conditions
- Apply the nursing process in the delivery of care to the stable patient
- Effectively communicate in the care of stable patients of diverse cultural backgrounds
- Demonstrate organizational skills in caring for patients with stable conditions
- Utilize and apply principles of teaching health promotion to patients with stable conditions
- Accept responsibility for learning in situations involving patients with stable conditions
- Demonstrate ethical/legal/professional responsibility in healthcare

**REQUIRED COURSES FOR PRACTICAL NURSING  
CERTIFICATE (LPN) (18 CREDITS NOT INCLUDING  
PRE-NURSING COURSE REQUIREMENTS)**

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

**YEAR 1**

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Summer Quarter</b>		
- BIOL 231*	Anatomy and Physiology .....	4
- BIOL 232*	Anatomy and Physiology .....	4
<b>• Fall Quarter</b>		
- WR 121*	English Composition .....	3
- BIOL 233*	Anatomy and Physiology .....	4
- NURS 101	Nursing I .....	10
- NURS 198	A.V. Learning Lab .....	1-2
<b>• Winter Quarter</b>		
- BIOL 234*	Microbiology .....	4
- NURS 102	Nursing II .....	10
- NURS 198	A.V. Learning Lab.....	1-2
- PSYC*	General Psychology 201, 202 or 203.....	3
<b>• Spring Quarter</b>		
- NURS 103	Nursing III .....	10
- NURS 198	A.V. Learning Lab .....	1-2
- WR 122*	English Composition .....	3

Upon completion of all four quarters described above, the student is eligible to write the National Council Licensing Examination for Practical Nursing (NCLEX-PN). To progress to the second year to obtain an associate degree, a cumulative GPA of 2.70 in general education courses and a 3.00 in nursing courses is required.

\* Pre-Nursing Course Requirements.

**Total Number of Credits in Certificate .....63**

**Registered Nurse  
ASSOCIATE OF APPLIED SCIENCE DEGREE  
(PROGRAM YEAR 2)**

**LEARNING OUTCOMES**

- Integrate facts and principles from biophysical/psychosocial sciences in the care of a group of patients in various stages of the life cycle
- Integrate the nursing process in providing care to a group of patients with complex conditions
- Effectively communicate in a self-directed manner in the care and management of a group of patients with diverse cultural backgrounds in a variety of healthcare settings
- Demonstrate management skills in caring for a group of patients with complex conditions
- Integrate principles of teaching health promotion to a group of patients
- Accept responsibility for learning in situations involving care of a group of patients
- Demonstrate ethical/legal/professional standards

**REQUIRED COURSES FOR REGISTERED NURSE (RN)  
DEGREE/ADVANCED PLACEMENT ENTRY  
(53 CREDITS)**

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

**YEAR 2**

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Summer Quarter</b>		
- FNU225*	Nutrition .....	4
- NURS 200	Role Development .....	5
<b>• Fall Quarter</b>		
- NURS 201	Nursing IV .....	9
- NURS 198	A.V. Learning Lab .....	1-2
- PHRC 211	Pharmacodynamics .....	2
- WR 123*	English Composition <u>or</u>	
- SP 111*	Fundamentals of Speech <u>or</u>	
- SP 219*	Small Group Discussion .....	3
<b>• Winter Quarter</b>		
- NURS 202	Nursing V .....	9
- NURS 198	A.V. Learning Lab .....	1-2
- PHRC 212	Pharmacodynamics .....	2
- Elective**	See Advisor for List .....	3-4
<b>• Spring Quarter</b>		
- NURS 203	Nursing VI .....	10
- NURS 198	A.V. Learning Lab .....	1-2
- Elective	See Advisor for List .....	3-4

\* Pre-Nursing Course Requirements.

**Total Number of Credits in Degree .....116**

# NURSING

## Associate of Arts Transfer Degree

### Nursing Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Nursing

**Department Chair:** Maureen McDonough

**Advising:** Nursing Faculty (ext. 345, 290)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Nursing at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Nursing emphasis fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR NURSING EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CHEM 104*	Survey of Chemistry .....	4
- PSYC 201*	General Psychology.....	3
• <b>Winter Quarter</b>		
- CHEM 105*	Survey of Chemistry .....	4
- PSYC 235*	Intro to Human Development I.....	3
• <b>Spring Quarter</b>		
- BIOL 101*	General Biology.....	4
- CHEM 106*	Survey of Chemistry .....	4
- PSYC 236*	Intro to Human Development II.....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BIOL 231*	Anatomy & Physiology .....	4
- FNUT 225*	Nutrition .....	4
• <b>Winter Quarter</b>		
- BIOL 234*	Microbiology .....	4
- MATH 243*	Probability and Statistics .....	4
- BIOL 232*	Human Anatomy & Physiology .....	4
• <b>Spring Quarter</b>		
- MATH 244*	Probability and Statistics .....	4
- BIOL 233*	Human Anatomy & Physiology .....	4

\* Indicates course is on the distribution list. See page 31 for guidelines.

## Office Administration At A Glance

Students interested in careers in general, legal, or medical office administration can pursue several different educational options, depending on a student's career goals. Students may see the office administration program advisor for assistance in determining the option that best meets the student's needs.

**Advising:** Ina Syphers (ext. 230)

### ASSOCIATE OF APPLIED SCIENCE DEGREES AND CERTIFICATES

Students wishing to directly enter the workforce after their educational experience at TVCC should consider either a two year Associate of Applied Science Degree or a one year certificate. These options are not designed to transfer to a four year institution, although some individual courses are transferable. Students wishing to transfer coursework should work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution.

#### ASSOCIATE OF APPLIED SCIENCE DEGREES

*Office Administration*

*Legal Office Administration*

*Medical Office Administration*

*Medical Transcription*

#### CERTIFICATES

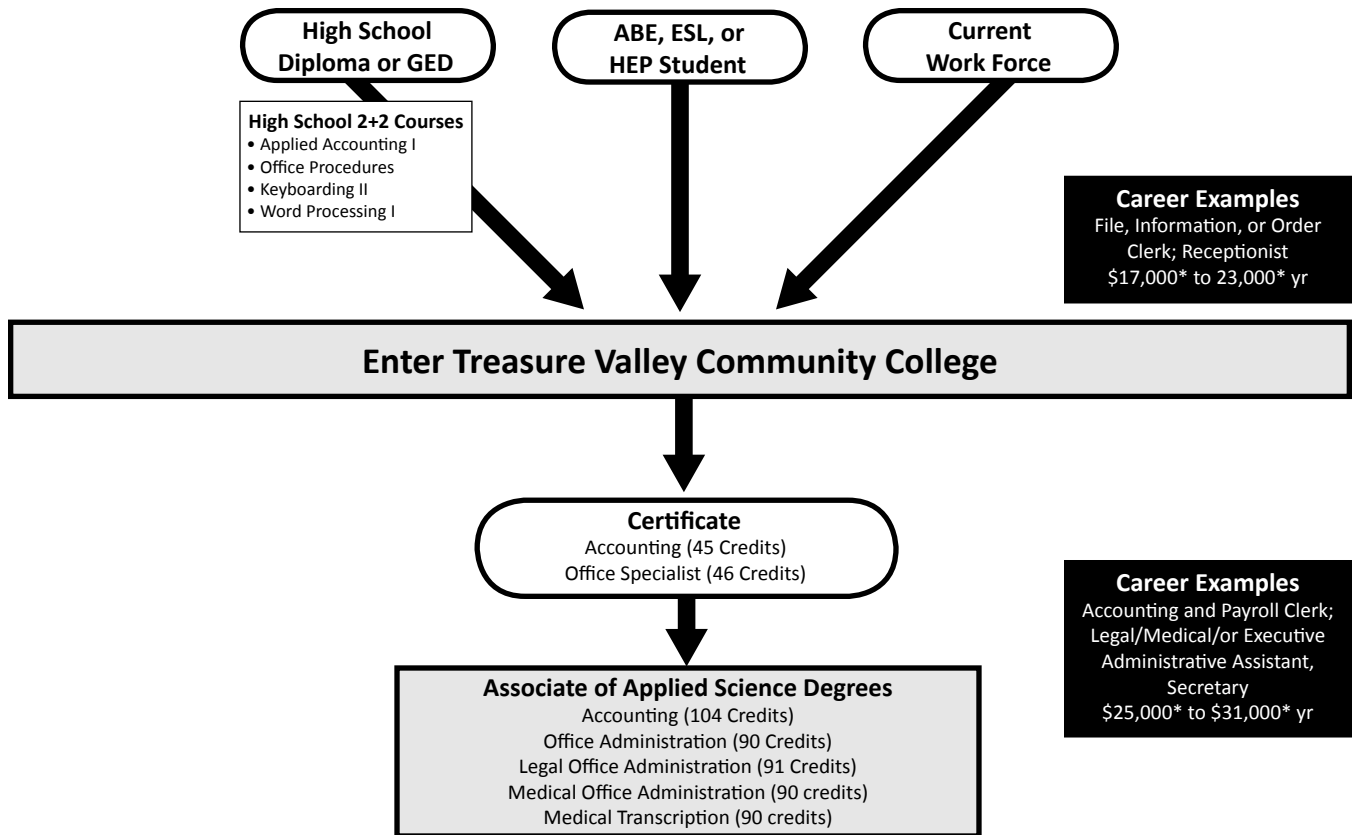
*Office Specialist*

### Office Administration Pathway Options

Department: Business

Department Chair: Dr. Wes Tucker (ext. 224)

Advising: Ina Syphers (ext. 230)



\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

## Legal Office Administration

### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Business  
**Department Chair:** Dr. Wes Tucker (ext. 224)  
**Advising:** Ina Syphers (ext. 230)

#### PROGRAM OVERVIEW

This program prepares students for a career in a legal office. The program provides solid groundwork in legal office procedures, foundation office skills, legal terminology and concepts, and computer training.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a minimum **grade point average of 2.0** are needed to graduate.

#### LEARNING OUTCOMES

Students who complete the Legal Office Administration Associate of Applied Science Degree will be prepared to:

- Compose well-organized written and oral presentations using a style that clearly integrates the purpose of the communication.
- Apply appropriate mathematical skills for problem solving and analyze information presented in a variety of formats using both manual systems and computer software.
- Use applied technology to support business functions utilizing computer software programs to include word processing, spreadsheets, databases, presentation programs, email, and the Internet.
- Use critical and creative thinking skills to solve business problems with the ability to propose logical solutions that are clear and concise.
- Apply ethical standards as they relate to business dealings.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, OA 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### DUAL CREDIT (2+2)

Students will receive credit for office administration classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### RELATED EDUCATION REQUIREMENTS (22 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Writing Skills (12 credits)**
  - BA 214 Business Communication
  - WR 121, 122 English Composition
  - WR 227 Technical Report Writing

- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Computation Skills (4 credits)**
  - BA 104 Business Math
- **Human Relations Skills (3 credit)**
  - BA 204 Teamwork Dynamics

#### REQUIRED COURSES FOR LEGAL OFFICE ADMINISTRATION (69 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 131	Intro to Business Computing .....	4
- OA 116	Office Procedures .....	3
- OA 201	Word Processing Procedures I .....	3
• <b>Winter Quarter</b>		
- OA 122	Keyboarding II .....	3
- BA 101	Intro to Business .....	4
- BA 226	Business Law I .....	3
• <b>Spring Quarter</b>		
- OA 225	Machine Transcription .....	3
- OA 240	Records Management .....	3
- OA 202	Word Processing Procedures II .....	3
- BA 227	Business Law II .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 200	Applied Accounting I <b>or</b>	
- BA 211	Principles of Accounting I .....	4
- CS 125 SS	Spreadsheet Applications .....	4
• <b>Winter Quarter</b>		
- CS 125 A	Database Applications .....	4
- OA 280	Cooperative Work Experience .....	2
- OA 226	Advanced Machine Transcription .....	3
- CJ 220	Criminal Law .....	3
- OA 131	Legal Procedures I .....	3
• <b>Spring Quarter</b>		
- BA 228	Computer-Assisted Accounting .....	3
- OA 290	Integrated Office Applications .....	3
- OA 280	Cooperative Work Experience .....	2
- CJ 222	Procedural Law .....	3
- OA 132	Legal Procedures II .....	3

**Total Number of Credits in Degree .....91**

# MEDICAL OFFICE ADMINISTRATION

## Associate of Applied Science Degree

### Medical Office Administration

#### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Business

**Department Chair:** Dr. Wes Tucker (ext. 224)

**Advising:** Ina Syphers (ext. 230)

#### PROGRAM OVERVIEW

This program prepares students for a career in a medical office. The Medical Office Administration program provides solid groundwork in medical office procedures, foundation office skills, medical terminology, medical billing, coding, transcription, and computer training. Medical coursework provides a wide background from an introductory medical billing course to an advanced medical transcription course. The student entering this program is preparing for immediate employment in a medical office environment to include hospitals, clinics, and doctors' offices.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a minimum **grade point average of 2.0** are needed to graduate.

#### LEARNING OUTCOMES

Students who complete the Medical Office Associate of Applied Science Degree will be prepared to:

- Compose well-organized written and oral presentations using a style that clearly integrates the purpose of the communication.
- Apply appropriate mathematical skills for problem solving and analyze information presented in a variety of formats using both manual systems and computer software.
- Use applied technology to support business functions utilizing computer software programs to include word processing, spreadsheets, databases, presentation programs, email, and the Internet.
- Use critical and creative thinking skills to solve business problems with the ability to propose logical solutions that are clear and concise.
- Apply ethical standards as they relate to business dealings.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, OA 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### DUAL CREDIT (2+2)

Students will receive credit for office administration classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### RELATED EDUCATION REQUIREMENTS (16 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Writing Skills (6 credits)**
  - WR 121 Intro to College Writing
  - BA 214 Business Communication
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Computation Skills (4 credits)**
  - BA 104 Business Math
- **Human Relations Skills (3 credit)**
  - BA 204 Teamwork Dynamics

#### REQUIRED COURSES FOR MEDICAL OFFICE ADMINISTRATION (74 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 131	Intro to Business Computing .....	4
- OA 116	Office Procedures .....	3
- OA 201	Word Processing Procedures I .....	3
- GSCI 161	Medical Terminology I .....	3
• <b>Winter Quarter</b>		
- OA 122	Keyboarding II .....	3
- BA 101	Intro to Business .....	4
- HPE 120	First Aid & CPR .....	2
- BA 226	Business Law I .....	3
• <b>Spring Quarter</b>		
- OA 225	Machine Transcription .....	3
- OA 240	Records Management .....	3
- OA 202	Word Processing Procedures II .....	3
- CS 125 SS	Spreadsheet Applications .....	4

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 200	Applied Accounting I <b>or</b> .....	4
- BA 211	Principles of Accounting I .....	4
- MREC 210	Medical Billing I .....	3
• <b>Winter Quarter</b>		
- BA 201	Applied Accounting II <b>or</b> .....	4
- BA 212	Principles of Accounting II .....	4
- MREC 116	Medical Office Procedures .....	3
- CS 125 A	Database Applications .....	4
- MREC 211	Medical Billing II .....	3
• <b>Spring Quarter</b>		
- BA 202	Applied Accounting III <b>or</b> .....	4
- BA 213	Principles of Accounting III .....	4
- BA 228	Computer-Assisted Accounting .....	3
- OA 290	Integrated Office Applications .....	3
- OA 226	Advanced Machine Transcription .....	3
- OA 280	Cooperative Work Experience .....	2

**Total Number of Credits in Degree .....90**

## Medical Transcription

### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Business  
**Department Chair:** Dr. Wes Tucker (ext. 224)  
**Advising:** Ina Syphers (ext. 230)

#### PROGRAM OVERVIEW

This program prepares students for a career as a Medical Transcriptionist in hospitals, clinics, and doctor's offices. The program provides solid groundwork in medical terminology, anatomy and physiology, transcription, and computer applications.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a minimum **grade point average of 2.0** are needed to graduate.

#### LEARNING OUTCOMES

Students who complete the Medical Transcription Associate of Applied Science Degree will be prepared to:

- Compose well-organized written and oral presentations using a style that clearly integrates the purpose of the communication.
- Apply appropriate mathematical skills for problem solving and analyze information presented in a variety of formats using both manual systems and computer software.
- Use applied technology to support business functions utilizing computer software programs to include word processing, spreadsheets, databases, presentation programs, email, and the Internet.
- Use critical and creative thinking skills to solve business problems with the ability to propose logical solutions that are clear and concise.
- Apply ethical standards as they relate to business dealings.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, OA 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### DUAL CREDIT (2+2)

Students will receive credit for office administration classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### RELATED EDUCATION REQUIREMENTS (16 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Writing Skills (6 credits)**
  - WR 121 English Composition
  - BA 214 Business Communication

- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Computation Skills (4 credits)**
  - BA 104 Business Math
- **Human Relations Skills (3 credit)**
  - BA 204 Teamwork Dynamics

#### ELECTIVES (3 CREDITS)

Students should meet with their Medical Transcription advisor for a list of suggested electives.

#### REQUIRED COURSES FOR MEDICAL TRANSCRIPTION DEGREE (71 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- GSCI 161	Medical Terminology I .....	3
- BIOL 101	General Biology.....	4
- BA 131	Intro to Business Computing .....	4
- OA 122	Keyboarding II .....	3
• <b>Winter Quarter</b>		
- OA 201	Word Processing Procedures I .....	3
- CHEM 104	Survey of Chemistry .....	4
- OA 226	Advanced Machine Transcription .....	3
- MREC 116	Medical Office Procedures.....	3
• <b>Spring Quarter</b>		
- OA 240	Records Management .....	3
- OA 202	Word Processing Procedures II .....	3
- HPE 120	First Aid & CPR .....	2
- MREC 110	Medical Transcription I .....	3

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BIOL 231	Human Anatomy and Physiology .....	4
- BIOL 234	Microbiology.....	4
• <b>Winter Quarter</b>		
- BIOL 232	Human Anatomy and Physiology .....	4
- OA 280	Cooperative Work Experience .....	3
- MREC 111	Medical Transcription II .....	3
- MREC 120	Surgical Transcription.....	3
• <b>Spring Quarter</b>		
- BIOL 233	Human Anatomy and Physiology .....	4
- MREC 125	Cardiology Transcription .....	1
- MREC 126	Gastrointestinal Transcription.....	1
- MREC 127	Orthopedic Transcription .....	1
- MREC 128	Pathology Transcription .....	1
- MREC 129	Radiology Transcription .....	1
- OA 280	Cooperative Work Experience .....	3

**Total Number of Credits in Degree .....90**

## Office Administration

### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Business  
**Department Chair:** Dr. Wes Tucker (ext. 224)  
**Advising:** Ina Syphers (ext. 230)

#### PROGRAM OVERVIEW

This program prepares students for a career in office administration. Students completing this program will be prepared for immediate employment in administrative support positions in both public and private organizations. Job duties may include providing, directing, and coordinating administrative office services. Students will have the opportunity to learn and get practical experience in application of a wide variety of office skills. This includes developing up-to-date knowledge and skills in office technologies.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a minimum **grade point average of 2.0** are needed to graduate.

#### LEARNING OUTCOMES

- Students who complete the Office Administration Associate of Applied Science Degree will be prepared to:
- Compose well-organized written and oral presentations using a style that clearly integrates the purpose of the communication.
  - Apply appropriate mathematical skills for problem solving and analyze information presented in a variety of formats using both manual systems and computer software.
  - Use applied technology to support business functions utilizing computer software programs to include word processing, spreadsheets, databases, presentation programs, email, and the Internet.
  - Use critical and creative thinking skills to solve business problems with the ability to propose logical solutions that are clear and concise.
  - Apply ethical standards as they relate to business dealings.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, OA 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### DUAL CREDIT (2+2)

Students will receive credit for office administration classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### RELATED EDUCATION REQUIREMENTS (16 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Writing Skills (6 credits)**
  - WR 121 English Composition
  - BA 214 Business Communication
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Computation Skills (4 credits)**
  - BA 104 Business Math
- **Human Relations Skills (3 credit)**
  - BA 204 Teamwork Dynamics

#### ELECTIVES (14 CREDITS)

Students should meet with their Office Administration advisor for a list of suggested electives.

#### REQUIRED COURSES FOR OFFICE ADMINISTRATION (60 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 131	Intro to Business Computing .....	4
- OA 116	Office Procedures .....	3
- OA 122	Keyboarding II .....	3
• <b>Winter Quarter</b>		
- BA 101	Introduction to Business.....	4
- OA 201	Word Processing Procedures I .....	3
• <b>Spring Quarter</b>		
- OA 225	Machine Transcription .....	3
- OA 240	Records Management .....	3
- CS 125 SS	Spreadsheet Applications .....	4
- OA 202	Word Processing Procedures II .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BA 200	Applied Accounting I <b>or</b> .....	4
- BA 211	Principles of Accounting I .....	
• <b>Winter Quarter</b>		
- BA 201	Applied Accounting II <b>or</b> .....	4
- BA 212	Principles of Accounting II .....	
- BA 226	Business Law I .....	3
- CS 125 A	Database Applications .....	4
- OA 280	Cooperative Work Experience .....	2
• <b>Spring Quarter</b>		
- BA 202	Applied Accounting III <b>or</b> .....	4
- BA 213	Principles of Accounting III .....	
- BA 227	Business Law II .....	3
- BA 228	Computer-Assisted Accounting .....	3
- OA 290	Integrated Office Applications .....	3

**Total Number of Credits in Degree .....90**

## Office Specialist PATHWAY CERTIFICATE

**Department:** Business

**Department Chair:** Dr. Wes Tucker (ext. 224)

**Advising:** Ina Syphers (ext. 230)

The one-year Office Specialist certificate prepares students for entry level employment in an office environment.

All courses in this certificate can be applied to any of the two-year Office Administration Associate of Applied Science degree programs. A minimum **grade point average of 2.0** is required to obtain the certificate.

### LEARNING OUTCOMES

Students who complete the Office Specialist Certificate will be prepared to:

- Compose well-organized written and oral presentations using a style that clearly integrates the purpose of the communication.
- Apply appropriate mathematical skills for problem solving and analyze information presented in a variety of formats using both manual systems and computer software.
- Use applied technology to support business functions utilizing computer software programs to include word processing, spreadsheets, databases, presentation programs, email, and the Internet.
- Use critical and creative thinking skills to solve business problems with the ability to propose logical solutions that are clear and concise.
- Apply ethical standards as they relate to business dealings.

### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, OA 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

### DUAL CREDIT (2+2)

Students will receive credit for office administration classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

### RELATED EDUCATION REQUIREMENTS (10 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Writing Skills (3 credits)**
  - WR 121 English Composition
- **Computation Skills (4 credits)**
  - BA 104 Business Math
- **Human Relations Skills (3 credit)**
  - BA 204 Teamwork Dynamics

### REQUIRED COURSES FOR OFFICE SPECIALIST CERTIFICATE (36 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- BA 131	Intro to Business Computing .....	4
- OA 116	Office Procedures .....	3
- OA 201	Word Processing Procedures I .....	3
<b>• Winter Quarter</b>		
- CS 125 A	Database Applications .....	4
- OA 122	Keyboarding II .....	3
- OA 225	Machine Transcription .....	3
- CS 125 SS	Spreadsheet Applications .....	4
<b>• Spring Quarter</b>		
- OA 240	Records Management .....	3
- OA 202	Word Processing Procedures II .....	3
- OA 290	Integrated Office Applications .....	3
- OA 280	Cooperative Work Experience .....	3

**Total Number of Credits in Certificate .....46**

# PHARMACY TECHNICIAN

## Certificate of Completion

### Pharmacy Technician

#### PATHWAY CERTIFICATE

Offered in Partnership with Central Oregon Community College (COCC). The number of student openings is determined annually. TVCC will be allotted 2-4 openings each year for students to begin their pharmacy core courses at COCC Winter Quarter.

**Department:** Science

**Department Chair:** Dr. Marie Strunk (ext. 347)

**Advising:** Lori Eyerl (ext.419)

**COCC Pharmacy Technician Program Director:** Joe Hussion 541-318-3723

#### PROGRAM OVERVIEW

This three quarter program prepares students for employment in the pharmacy industry. Pharmacy technicians are skilled workers who are educated and trained to work and assist in all areas of the pharmacy not requiring the professional judgment of the registered pharmacist. Some current practice areas for the pharmacy technician include retail, hospital, manufacturing, and mail order and insurance claim specialists. The pharmacy technician processes prescriptions and medication orders and plays an integral role in maintaining the pharmacy department.

The core program is completed in primarily in a web format and focuses on the abilities needed to assist the pharmacist and provide the skills necessary to process prescriptions accurately, participate in administration and management of a pharmacy and maintain inventory. Students will gain a working knowledge of sterile technique, standards of practice, quality assurance and patient confidentiality. In addition, students will develop and practice communication skills needed to function in a professional setting. In order to gain workplace experience, students will also participate in hospital and retail pharmacy worksite practicums.

The program is designed to prepare students to take the national certification exam to become a Certified Pharmacy Technician as required by the Oregon Board of Pharmacy and to be employed in a pharmacy setting.

Students from TVCC who choose this certificate option will be dually enrolled at TVCC and COCC. Students should apply to TVCC to take prerequisite coursework and then to COCC for Pharmacy Technician coursework. Co-requisite courses may also be taken through TVCC.

Students will enroll in two clinical practicums; one clinical practicum will be served in a hospital setting and one in a retail pharmacy. COCC will work with TVCC and local medical and pharmacy facilities to set up local practicum sites for students.

Admission to the Pharmacy Technician program is through open enrollment. Seats are limited and enrollment is on a first come, first served basis. Students must meet have successfully completed all prerequisite coursework in order to register in the program. Admission to the Pharmacy Technician classes at COCC requires approval from the COCC Pharmacy Technician Director.

In order to enter the Pharmacy Technician program, students must co-register at COCC and TVCC by doing the following:

- Apply to TVCC and indicate that their major is Pharmacy Technician
- Complete the Pharmacy Technician Program checklist (see below)
- Take prerequisite and co-requisite courses as needed at TV

**PROGRAM CHECKLIST** for Students admitted to the program through TVCC (copies of checklist available in TVCC Student Services).

1. Apply to COCC (applications available on line at [www.cocc.edu](http://www.cocc.edu))
2. Take Placement Test (COMPASS) and submit transcripts to COCC Ad-

missions and Records. Placement tests and transcript review may be done by TVCC

3. Provide COCC Pharmacy Technician Program Director with Verification of Completion of High School diploma or GED (copies of high school transcripts or GED) Unofficial transcripts may be used to verify completion of coursework with a "C" or better or to confirm placement test scores. Courses may be "in progress" for fall quarter. However, students who do not complete courses in progress with a "C" or better will be dropped from the program. Submit verification items in one packet (do not submit individually). The student packet with all verification items included must clearly be marked with the student's name and COCC ID number and submitted to :Joe Hussion, Pharmacy Technician Program Director, 2600 NW College Way, Ochoco Hall, RM 105, Bend Oregon 97701.
  - Successful completion of Writing 115 or placement in Writing 121 (may take writing classes at TVCC)
  - Successful completion of Math 25 or placement into Math 60 (may take Math 25 at TVCC; will take PHARM 110 Pharmacy Calculations through COCC)
  - Current AHA CPR/ AED Certification for Healthcare Providers
  - Proof of immunizations (Hepatitis B, MMR, Tdap)
  - Tuberculin Skin Test negative results or chest x-ray if positive
4. Complete COCC online orientation (<http://web.cocc.edu/onlineorientation/>)
5. Complete new student advising (Call Pharmacy Technician Director at 541-318-3723 for advising by phone)
6. Register for Pharmacy Technician Program Courses

#### PREREQUISITE COURSES THAT MUST BE TAKEN (MAY BE TAKEN AT TVCC) PRIOR TO ENTRY INTO THE CORE PROGRAM

- Writing 115 and Reading 112 (if place below WR 121 on COMPASS exam)
- Math 25 (if place below Math 60 on COMPASS exam)
- CS 120

#### CO-REQUISITE COURSES THAT MAY BE TAKEN AT TVCC EITHER DURING OR PRIOR TO ENTRY INTO THE CORE PROGRAM

- WR 121 English Composition .....3 credits
- BIOL 121 Intro to Anatomy and Physiology.....5 credits
- GSCI 161 Medical Terminology I .....3 credits
- NURS 162 Medical Terminology II .....3 credits
- PSYC 101 Psychology of Human Relations .....3 credits

#### CORE PROGRAM PHARMACY TECHNICIAN COURSES ON THE WEB THROUGH COCC

- **Winter Quarter**
  - PHM 100 Introduction to Pharmacy Tech.....3 credits
  - PHM 120 Drug Classification and Therapeutics.....3 credits
- **Spring Quarter**
  - PHM 110 Pharmacy Calculations.....3 credits
  - PHM 130 Drug Classification and Therapeutics.....3 credits
  - PHM 140 Pharmacy Tech Practice .....4 credits  
Course includes 1 credit lecture/lab which will be conducted at COCC campus. Lab will be conducted over two weekends of the quarter.
- **Summer Quarter**
  - PHM 181 Pharmacy Tech Seminar.....1 credits
  - PHM 190 Pharmacy Tech Practicum 60 hours clinical experience (Hospital/Institutional).....2 credits
  - PHM 191 Pharmacy Tech Practicum 90 hours clinical experience (Retail /Community).....3 credits

## Pre-Pharmacy Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science  
**Department Chair:** Dr. Marie Strunk (ext. 347)  
**Advising:** Kerby Winters (ext. 369)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transfer credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Pharmacy at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Nursing emphasis fulfill a portion of the distribution requirements.

#### RECOMMENDED ELECTIVES (6 CREDITS)

PSYC 201\*, 202\* General Psychology

\* Indicates course is on the distribution list. See page 31 for guidelines.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR PRE-PHARMACY EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- BIOL 211*	College Biology .....	5
- CHEM 221*	College Chemistry .....	5
- MATH 111	College Algebra .....	4
- ECON 201*	Principles of Economics: Micro .....	3
<b>• Winter Quarter</b>		
- CHEM 222*	College Chemistry .....	5
- MATH 112*	Elementary Functions .....	4
- ECON 202	Principles of Economics: Macro .....	3
<b>• Spring Quarter</b>		
- BIOL 234*	Microbiology .....	4
- CHEM 223*	College Chemistry .....	5

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- BIOL 231*	Human Anatomy and Physiology .....	4
- CHEM 227	Organic Chemistry .....	5
- MATH 251*	Calculus I .....	4
- PHYS 201*	General Physics I .....	4
<b>• Winter Quarter</b>		
- BIOL 232*	Human Anatomy and Physiology .....	4
- CHEM 228	Organic Chemistry .....	5
- PHYS 202*	General Physics II .....	4
<b>• Spring Quarter</b>		
- BIOL 233*	Human Anatomy and Physiology .....	4
- CHEM 229	Organic Chemistry .....	5

\* Indicates course is on the distribution list. See page 31 for guidelines.

# PHYSICAL EDUCATION

## Associate of Arts Transfer Degree

### Physical Education Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Physical Education  
**Department Chair:** Kathy Bell (ext. 275)  
**Advising:** Kathy Bell (ext. 275)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transferable credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Physical Education, Kinesiology, Athletic Administration, or Coaching at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite.

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Physical Education emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

### RECOMMENDED COURSES FOR PHYSICAL EDUCATION EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- EDUC 200	Intro to Education .....	4
- HPE 185	Physical Education Activity .....	1
- HPE 194	Professional Activities Lab .....	2
- CHEM 104*	Survey of Chemistry (Health).....	4
• <b>Winter Quarter</b>		
- HPE 185	Physical Education Activity .....	1
- HPE 194	Professional Activities Lab .....	2
- FNUT 225*	Nutrition .....	4
• <b>Spring Quarter</b>		
- HPE 185	Physical Education Activity .....	1
- HPE 194	Professional Activities Lab .....	2
- BIOL 101*	General Biology.....	4

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- HPE 185	Physical Education Activity .....	1
- HPE 294	Professional Activities Lab .....	2
- HPE 131	Intro to PE and Health .....	3
- BIOL 231*	Human Anatomy and Physiology.....	4
• <b>Winter Quarter</b>		
- HPE 120	First Aid & CPR .....	2
- HPE 185	Physical Education Activity .....	1
- HPE 294	Professional Activities Lab .....	2
- HPE 295	Health and Fitness for Life .....	3
- BIOL 232*	Human Anatomy and Physiology.....	4
• <b>Spring Quarter</b>		
- HPE 185	Physical Education Activity .....	1
- HPE 294	Professional Activities Lab .....	2
- BIOL 233*	Human Anatomy and Physiology.....	4

\* Indicates course is on the distribution list. See page 31 for guidelines.

## Pre-Physical Therapy Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science  
**Department Chair:** Dr. Marie Strunk (ext. 347)  
**Advising:** Kerby Winters (ext. 369)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transferable credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Pre-Physical Therapy at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122 English Composition
  - WR 123 English Composition or
  - WR 227 Technical Report Writing
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Pre-Physical Therapy emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES (6 CREDITS)

- SOC 204\* General Sociology
- ANTH 110\* Cultural Anthropology

\* Indicates course is on the distribution list. See page 31 for guidelines.

#### RECOMMENDED COURSES FOR PRE-PHYSICAL THERAPY EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- BIOL 211*	Biology .....	5
- CHEM 221*	College Chemistry .....	5
- MATH 111	College Algebra .....	4
- GSCI 161	Medical Terminology I .....	3
<b>• Winter Quarter</b>		
- BIOL 212*	Biology .....	5
- CHEM 222*	College Chemistry .....	5
- MATH 112*	Elementary Functions .....	4
- PSYC 201*	General Psychology.....	3
<b>• Spring Quarter</b>		
- BIOL 234*	Microbiology .....	4
- CHEM 223*	College Chemistry .....	5
- GSCI 161	Medical Terminology I .....	3
- PSY 202*	General Psychology.....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- CHEM 227	Organic Chemistry .....	5
- BIOL 231*	Human Anatomy and Physiology .....	4
- PHYS 201*	General Physics I .....	4
<b>• Winter Quarter</b>		
- CHEM 228	Organic Chemistry .....	5
- BIOL 232*	Human Anatomy and Physiology .....	4
- PHYS 202*	General Physics II .....	4
- MATH 243*	Statistics .....	4
<b>• Spring Quarter</b>		
- CHEM 229	Organic Chemistry .....	5
- BIOL 233*	Human Anatomy and Physiology .....	4
- PHYS 203*	General Physics III .....	4

\* Indicates course is on the distribution list. See page 31 for guidelines.

### Physics Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science

**Department Chair:** Dr. Marie Strunk (ext. 347)

**Advising:** Dr. Rick Reynolds (ext. 323)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transferable credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Physics at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended physics emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT(3 CREDITS)

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES (8 CREDITS)

- CS 161, 162 Computer Science I, II

#### RECOMMENDED COURSES FOR PHYSICS EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- CHEM 221*	College Chemistry .....	5
- MATH 111	College Algebra .....	4
• <b>Winter Quarter</b>		
- CHEM 222*	College Chemistry .....	5
- MATH 112*	Elementary Functions .....	4
• <b>Spring Quarter</b>		
- CHEM 223*	College Chemistry .....	5
- MATH 113*	Pre-Calculus .....	4

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- MATH 251*	Calculus I.....	5
- PHYS 211*	Classical Physics I .....	5
• <b>Winter Quarter</b>		
- MATH 252*	Calculus II.....	5
- PHYS 212*	Classical Physics II .....	5
• <b>Spring Quarter</b>		
- MATH 253*	Calculus III.....	5
- PHYS 213*	Classical Physics III .....	5

\* Indicates course is on the distribution list. See page 31 for guidelines.

## Political Science Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Social Science  
**Department Chair:** Debbie Skousen (ext. 287)  
**Advising:** Gerry Hampshire (ext. 361)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transferable credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Political Science at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 12, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech or
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Political Science emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable

#### RECOMMENDED COURSES FOR POLITICAL SCIENCE EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- POSC 201*	American Government .....	3
- ECON 201*	Principles of Economics: Micro .....	3
• <b>Winter Quarter</b>		
- POSC 202*	American Government .....	3
- ECON 202*	Principles of Economics: Macro .....	3
• <b>Spring Quarter</b>		
- POSC 203*	American Government .....	3
- ECON 203*	Principles of Economics: Economic Issues .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- HIST 201*	History of the United States .....	3
• <b>Winter Quarter</b>		
- HIST 202*	History of the United States .....	3
• <b>Spring Quarter</b>		
- HIST 203*	History of the United States .....	3

\* Indicates course is on the distribution list. See page 31 for guidelines.

### Psychology Emphasis ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Social Science

**Department Chair:** Debbie Skousen (ext. 287)

**Advising:** Debbie Skousen (ext. 287)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transferable credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Psychology at a four-year college or university and include all requirements for the Associate of Arts (AOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS COURSE REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122 English Composition
  - WR 123 English Composition **or**
  - WR 227 Technical Report Writing
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech **or**
  - SP 112 Persuasive Speech **or**
  - SP 219 Small Group Discussion
- **Mathematics (4 credits)**
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some courses recommended for Psychology emphasis fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES

- BIOL 231\*, 232\*, 233\* Human Anatomy and Physiology
- CJ 205 Victims of Crime
- CJ 202 Violence and Aggression

\* Indicates course is on the distribution list. See page 31 for guidelines.

#### RECOMMENDED COURSES FOR PSYCHOLOGY EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- PSYC 201*	General Psychology .....	3
• <b>Winter Quarter</b>		
- PSYC 202*	General Psychology .....	3
• <b>Spring Quarter</b>		
- PSYC 203*	General Psychology .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- SOC 210	Marriage/Family/Intimate Relations .....	3
• <b>Winter Quarter</b>		
- PSYC 235*	Intro to Human Development I .....	3
- MATH 243*	Intro to Probability and Statistics I.....	4
• <b>Spring Quarter</b>		
- PSYC 236*	Intro to Human Development II .....	3
- MATH 244*	Intro to Probability and Statistics II.....	4

\* Indicates course is on the distribution list. See page 31 for guidelines.

## Pre-Radiological Science

### Emphasis

#### FIRST YEAR COURSEWORK

**Department:** Science

**Department Chair:** Dr. Marie Strunk (ext. 347)

**Advising:** Dr. Marie Strunk (ext. 347); Cindy Feibert (ext. 556)

The following program is recommended to students interested in Radiologic Technology. It is designed to transfer to the program at Boise State University after one year. Students accepted into that program may have the opportunity to complete their clinical education at Holy Rosary Medical Center. Prospective BSU students should contact the BSU Radiologic Science Department advisor for detailed advising. The application deadline for this program is generally the first week of February.

Students not intending to apply to the Boise State program should consult with their advisor for any special requirements or additional coursework for the college or university to which they are considering transferring.

#### RECOMMENDED COURSES FOR PRE-RADIOLOGICAL SCIENCE EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- CHEM 104	Survey of Chemistry .....	4
- WR 121	English Composition .....	3
- PSYC 201	General Psychology .....	3
- SP 111	Fundamentals of Speech .....	3
- BIOL 101	General Biology.....	4
<b>• Winter Quarter</b>		
- CHEM 105	Survey of Chemistry .....	4
- WR 122	English Composition .....	3
- MATH 111*	College Algebra <b>or</b>	
- BIOL 231	Human Anatomy and Physiology .....	4
- GSCI 161	Medical Terminology I <b>or</b>	
- NURS 184	Medical Terminology II .....	3
<b>• Spring Quarter</b>		
- BIOL 232	Human Anatomy and Physiology .....	4
- WR 123	English Composition .....	3
- MATH 105*	Contemporary Mathematics.....	5
- BIOL 233	Human Anatomy and Physiology .....	4
- CS 120	Computer Concepts .....	4

\*Students are advised to take either MATH 112 **and** 113 **or** MATH 105 **and** 111.

# SOCIAL WORK

## Associate of Arts Transfer Degree

### Social Work Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Social Science

**Department Chair:** Debbie Skousen (ext. 287)

**Advising:** Debbie Skousen (ext. 287)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transferable credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Social Work at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for courses and guidelines that fulfill distribution requirements. Some recommended Social Work emphasis courses fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED COURSES FOR SOCIAL WORK EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- BIOL 101*	General Biology.....	4
- PSYC 201*	General Psychology.....	3
• <b>Winter Quarter</b>		
- PSYC 235*	Human Development I.....	3
- SOC (any)	Sociology.....	3
- ENG*	Any Literature .....	3
• <b>Spring Quarter</b>		
- PSYC 236*	Human Development II.....	3
- ETHN (any)	Ethnic Studies .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- SOWK 111	Intro to Social Work .....	3
- ECON 201*	Principles of Economics: Micro.....	3
• <b>Winter Quarter</b>		
- HSER 202	Counseling Techniques I .....	4
- HIST*	Any History .....	3
• <b>Spring Quarter</b>		
- SOWK 220	Social Welfare System & Policy.....	3
- SOWK 280	Cooperative Work Experience .....	2
- POSC*	Any Political Science .....	3

\* Indicates course is on the distribution list. See page 31 for guidelines.

## Sociology Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Social Science  
**Department Chair:** Debbie Skousen (ext. 287)  
**Advising:** Scott Davis (ext. 253)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transferable credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Sociology at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college-level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - Any math course above MATH 95 that has Intermediate Algebra or higher as a prerequisite

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
 Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some courses recommended for Sociology emphasis fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES

- CJ 205 Victims of Crime
- CJ 202 Violence and Aggression

#### RECOMMENDED COURSES FOR SOCIOLOGY EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- SOC 204*	General Sociology .....	3
• <b>Winter Quarter</b>		
- SOC 205*	General Sociology .....	3
• <b>Spring Quarter</b>		
- SOC 206*	General Sociology .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- ETHN 101*	Ethnic Studies .....	3
- SOC 210	Marriage/Family/Intimate Relations .....	3
• <b>Winter Quarter</b>		
- MATH 243*	Intro to Probability and Statistics I.....	4
- ETHN 102*	Ethnic Studies .....	3
• <b>Spring Quarter</b>		
- MATH 244*	Intro to Probability and Statistics II.....	4
- ETHN 103*	Ethnic Studies .....	3

\* Indicates course is on the distribution list. See page 31 for guidelines.

# STRUCTURAL FIRE SCIENCE

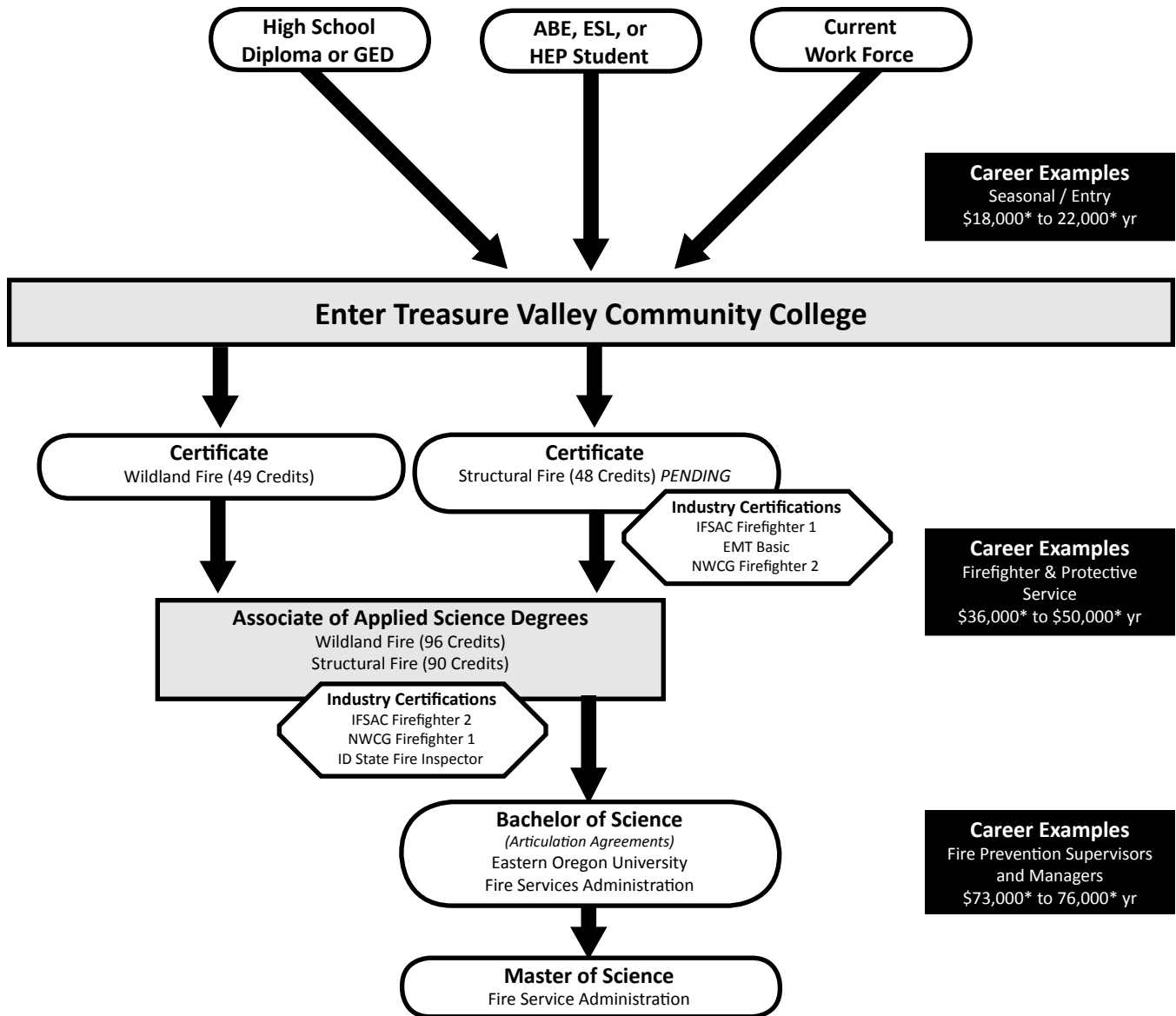
## Career Pathways

### Structural Fire Science Career Pathway Options

Department: Professional Technical

Advising: Marcus Nichols (ext. 260)

Agency Contact: Sheryl Romans (ext. 281)



\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

## Structural Fire Science

### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Professional Technical  
**Advising:** Marcus Nichols (ext. 260); Stacia Lee-Gerulf (ext. 228)

#### PROGRAM OVERVIEW

This program prepares students to enter a career in the urban fire science industry. Graduates are prepared to work as a Firefighter, Emergency Medical Technician, or Fire Inspector. Students successfully completing both years of the program may apply for an Associates of Applied Science degree and will be eligible to apply for IFSAC Firefighter I, Basic EMT, and NWCG Firefighter II certification. IFSAC Firefighter II and NWCG Firefighter I certification.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a minimum **grade point average of 2.0** are needed to graduate.

#### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, SFS 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

#### LEARNING OUTCOMES

Students who complete the Associate of Applied Science Structural Fire Science program will be prepared to demonstrate the ability to:

- Correctly use fire department communications equipment to professionally initiate, relay and respond to verbal or written communications in both non-emergency and emergency situations.
- Conduct, coordinate, and complete basic fire cause and origin investigation, and participate, under supervision, in the investigation of complex fire structures.
- Conduct risk reduction evaluations through hazard identification.
- Assist as a member of an advanced life support team to improve patient outcomes by performing basic life support procedures including infection control, CPR, bleeding control, and shock management.

#### RELATED EDUCATION REQUIREMENTS (12 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (6 credits)**
  - WR 101 Workplace Communications
  - SP 111 Fundamentals of Speech
- **Computation Skills (2 Credits)**
  - AET 211 Engineering Problems
- **Human Relations Skills (4 credits)**
  - PSYC 101 Psychology of Human Relations
  - INED 156 Employment Strategies

#### ELECTIVES FOR AAS DEGREE (9 CREDITS)

- SFS 261 Fire Incident Related Experience IV
- SFS 262 Fire Incident Related Experience V
- SFS 263 Fire Incident Related Experience VI

#### ADDITIONAL REQUIRED COURSES FOR TRANSFER TO EASTERN OREGON UNIVERSITY IN FIRE SERVICES ADMINISTRATION)

- BIOL 121 Applied Anatomy and Physiology
- SOC 204, 205, 206 Sociology
- PSYC 201, 202, 203 Psychology
- CHEM 104/or higher Chemistry
- BIOL 101/or higher Biology
- SFS 166 Firefighters Law
- SFS 284 Public Info for the Fire Service
- SFS 217 Fire Budgets or
- Business

#### COURSES FOR STRUCTURAL FIRE SCIENCE PROGRAM (69 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- EMT 151	EMT Basic I.....	5
- SFS 101	Intro to Fire & Emergency Service .....	4
- SFS 151	Fire Incident Related Experience I .....	3
• <b>Winter Quarter</b>		
- CS 120	Computer Concepts.....	4
- EMT 152	EMT Basic II.....	5
- SFS 152	Fire Incident Related Experience II .....	3
- HPE 295	Health and Fitness for Life .....	3
• <b>Spring Quarter</b>		
- SFS 153	Fire Incident Related Experience III .....	3
- SFS 158	Fire Pumps and Water Supply.....	3
- SFS 256	Fire Service Rescue Practices.....	4
- SFS 266	Building Construction for Fire Suppression .....	3
- GSCI 161	Medical Terminology I .....	3

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- SFS 169	Fire Department Leadership.....	3
- SFS 260	Fundamentals of Fire Prevention.....	3
- Electives	See list.....	3+
• <b>Winter Quarter</b>		
- SFS 259	Major Emergency Strategy and Tactics.....	3
- NATR 116	S-215 Fire Operation Wildland/Urban .....	2
- Electives	See list.....	3+
• <b>Spring Quarter</b>		
- SFS 171	Fire Protection Systems and Extinguishers .....	3
- SFS 172	International Fire Codes .....	3
- SFS 280	Fire Science Work Experience.....	3

**Total Number of Credits in Degree .....**90

### Theatre Emphasis

#### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Fine and Performing Arts

**Department Chair:** Robin Jackson (ext. 270)

**Advising:** Katie Bennett (ext. 215)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transferable credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Theatre Arts at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

#### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Communication Skills (9 credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
  - SP 219 Small Group Discussion
- **Computation Skills (credits)**
  - MATH 105 Contemporary Mathematics or
  - MATH 111 College Algebra
- **Communication Skills (3 credits)**
  - Psyc 101 Psyc. of Human Relations

#### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended courses for Theatre Arts emphasis and recommended electives fulfill a portion of the distribution requirements.

#### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

#### RECOMMENDED ELECTIVES

- ART 101\* Introduction to Art
- MUS 201\* Intro to Music & Its Literature
- ENG\* Any literature
- HIST 101\*, 102\*, 103\* History of Western Civilization

\* Indicates course is on the distribution list. See page 31 for guidelines.

#### RECOMMENDED COURSES FOR THEATRE EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

##### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- TA 100*	Intro to Theatre .....	3
- TA 111*	Fundamentals of Technical Theatre I.....	3
- TA 141*	Acting I .....	3
<b>• Winter Quarter</b>		
- TA 112*	Fundamentals of Technical Theatre II.....	3
- TA 142*	Acting II .....	3
<b>• Spring Quarter</b>		
- TA 113*	Fundamentals of Technical Theatre III.....	3
- TA 143*	Acting III .....	3

##### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- TA 253	Theatre Rehearsal/Performance.....	3
<b>• Winter Quarter</b>		
- TA 253	Theatre Rehearsal/Performance .....	3
- TA 149	Dance for Theatre .....	2
<b>• Spring Quarter</b>		
- TA 253	Theatre Rehearsal/Performance .....	3

\* Indicates course is on the distribution list. See page 31 for guidelines.

# Pre-Veterinary Medicine

## Emphasis

### ASSOCIATE OF ARTS TRANSFER DEGREE

**Department:** Science

**Department Chair:** Dr. Marie Strunk (ext. 347)

**Advising:** Dr. Marie Strunk (ext. 347); Kerby Winters (ext. 369); Arwyn Larson (ext. 213)

This degree fulfills the general education block transfer at most Oregon and Idaho colleges and universities. A minimum of 90 transferable credits and a minimum **grade point average of 2.0** are needed to graduate.

The following courses are recommended for students interested in pursuing a degree in Pre-Veterinary Medicine at a four-year college or university and include all requirements for the Associate of Arts (AAOT) degree. **Students are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution.

### FOUNDATION SKILLS REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related college-level courses listed below. Students who test below college level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

Students are required to complete the foundation skills courses with a grade of "C" or better in each course. Note: Courses used to fulfill foundation skills requirements may not be used to fulfill distribution requirements.

- **Writing Skills (9 Credits)**
  - WR 121, 122, 123 English Composition
- **Oral Communications (3 credits)**
  - SP 111 Fundamentals of Speech
- **Mathematics (4 credits)**
  - MATH 111 College Algebra

### DISTRIBUTION REQUIREMENTS (45 CREDITS)

(Arts and Letters, Social Science, Science/Math/Computer Science)  
Students are referred to page 31 for a list of courses and guidelines that fulfill distribution requirements. Some recommended Pre-Veterinary Medicine emphasis courses fulfill a portion of the distribution requirements.

### DIVERSITY REQUIREMENT

One course, selected from the list on page 31, meets the diversity requirement. The course selected for the diversity requirement may also be used to fulfill distribution requirements or electives, where applicable.

### RECOMMENDED COURSES FOR PRE-VETERINARY MEDICINE EMPHASIS

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- BIOL 211*	Biology .....	5
- CHEM 221*	College Chemistry .....	5
- MATH 111	College Algebra .....	4
<b>• Winter Quarter</b>		
- BIOL 212*	Biology .....	5
- CHEM 222*	College Chemistry .....	5
- MATH 112*	Elementary Functions .....	4
<b>• Spring Quarter</b>		
- BIOL 213*	Biology .....	5
- BIOL 234*	Microbiology .....	4
- CHEM 223*	College Chemistry .....	5

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- MATH 251*	Calculus I.....	5
- CHEM 227	Organic Chemistry .....	5
- PHYS 201*	General Physics I.....	4
<b>• Winter Quarter</b>		
- CHEM 228	Organic Chemistry .....	5
- PHYS 202*	General Physics II.....	4
- MATH 243*	Probability and Statistics I.....	4
<b>• Spring Quarter</b>		
- CHEM 229	Organic Chemistry .....	5
- PHYS 203*	General Physics III.....	4

\* Indicates course is on the distribution list. See page 31 for guidelines.

# VITICULTURE AND ENOLOGY

Associate of Applied Science Degree

## Viticulture and Enology

ASSOCIATE OF APPLIED SCIENCE DEGREE

Department: Agriculture

Advising: Roger Findley (ext. 307); Stacia Lee-Gerulf (ext. 228)

### PROGRAM OVERVIEW

This program prepares students to enter a career in the table and wine grape industry. Graduates are prepared to work as vineyard technicians or entry level winery assistants.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a minimum 2.0 grade point average are needed to graduate.

### LEARNING OUTCOMES

- Demonstrate appropriate recordkeeping for TTB compliance and state and federal pest control applications.
- Demonstrate green house skills including root stock selection, grafting, irrigation, pest control, and seedling care until transplant.
- Design, layout and construct a vineyard.
- Identify 10 cultivars appropriate for the Snake River Valley and 5 methods of vine training.
- Maintain an operate yearly schedule for a vineyard including making daily and seasonal management decisions.

### WORK-BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, VMW 110, VMW 111, VMW 112, VMW 113) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

### DUAL CREDIT (2+2)

Students will receive credit for classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

### RELATED EDUCATION REQUIREMENTS (10 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Workplace Communications
- **Computation Skills (3 credits)**
  - AET 211 Engineering Problems
- **Human Relations Skills (4 credits)**
  - PSYC 101 Psychology of Human Relations
  - INED 156 Employment Strategies

### ELECTIVES (7 CREDITS)

Students should meet with their Viticulture/Enology advisor for a list of suggested electives.

### REQUIRED COURSES FOR VITICULTURE AND ENOLOGY PROGRAM (73 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- VMW 102	Wine Industry Exploration .....	3
- AET 212	Industrial Safety .....	1
- VMW 110	Fall Vineyard Practices .....	4
- CSS 205	General Soils .....	1
- HORT 111	Intro to Plant Growth.....	3
• <b>Winter Quarter</b>		
- CSS 215	Soil Nutrients and Fertilizer .....	3
- VMW 115	Record Keeping/TTB Compliance .....	3
- AG 215	Irrigation and Drainage .....	3
- VMW 111	Winter Vineyard Practices .....	4
- CSS 217	Pesticide Safety and Use .....	1
• <b>Spring Quarter</b>		
- CSS 240	Intro to Noxious Weeds .....	3
- VMW 112	Spring Vineyard Practices .....	4
- VMW 101	General Viticulture.....	3
• <b>Summer Quarter</b>		
- VMW 113	Summer Vineyard Practices.....	4

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- VMW 122**	Intro to Wine Making <b>or</b>	
- Elective	Viticulture Elective.....	3
- CHEM 121*	Chemistry.....	4
- AREC 210	Farm Business Management .....	3
- Elective	Viticulture Elective.....	3
• <b>Winter Quarter</b>		
- AET 222	Industrial Mechanics.....	3
- AREC 211	Management in Agriculture.....	4
- CHEM 122	Chemistry.....	4
- HORT 211	Plant Propagation .....	3
• <b>Spring Quarter</b>		
- HORT 250	Plant Pathology.....	3
- AREC 221	Marketing in Agriculture.....	3
- VMW 170	Intro to Wine Marketing .....	3

\*MATH 65 Prerequisite - suggested Math placement score of 70 for direct entrance to program.

\*\*Students must be 21 years old to enroll in this course.

**Total Number of Credits in Degree .....90**

## Wine Making

### ASSOCIATE OF APPLIED SCIENCE DEGREE

*PARTNERSHIP WITH CHEMEKETA COMMUNITY COLLEGE  
APPROVAL PENDING*

**Department:** Agriculture  
**Advising:** Stacia Lee-Gerulf (ext. 228)

As part of the Northwest Viticulture and Enology Education Partnership, Treasure Valley has signed articulation agreements with Chemeketa Community College that will allow students to begin working toward Chemeketa's Wine Making or Wine Marketing degrees while students at Treasure Valley.

Chemeketa will give full credit for the Treasure Valley courses listed in the articulation agreements. To complete either degree at least 30 credits must be earned through Chemeketa.

## Wine Marketing

### ASSOCIATE OF APPLIED SCIENCE DEGREE

*PARTNERSHIP WITH CHEMEKETA COMMUNITY COLLEGE  
APPROVAL PENDING*

**Department:** Agriculture  
**Advising:** Stacia Lee-Gerulf (ext. 228)

As part of the Northwest Viticulture and Enology Education Partnership, Treasure Valley has signed articulation agreements with Chemeketa Community College that will allow students to begin working toward Chemeketa's Wine Making or Wine Marketing degrees while students at Treasure Valley.

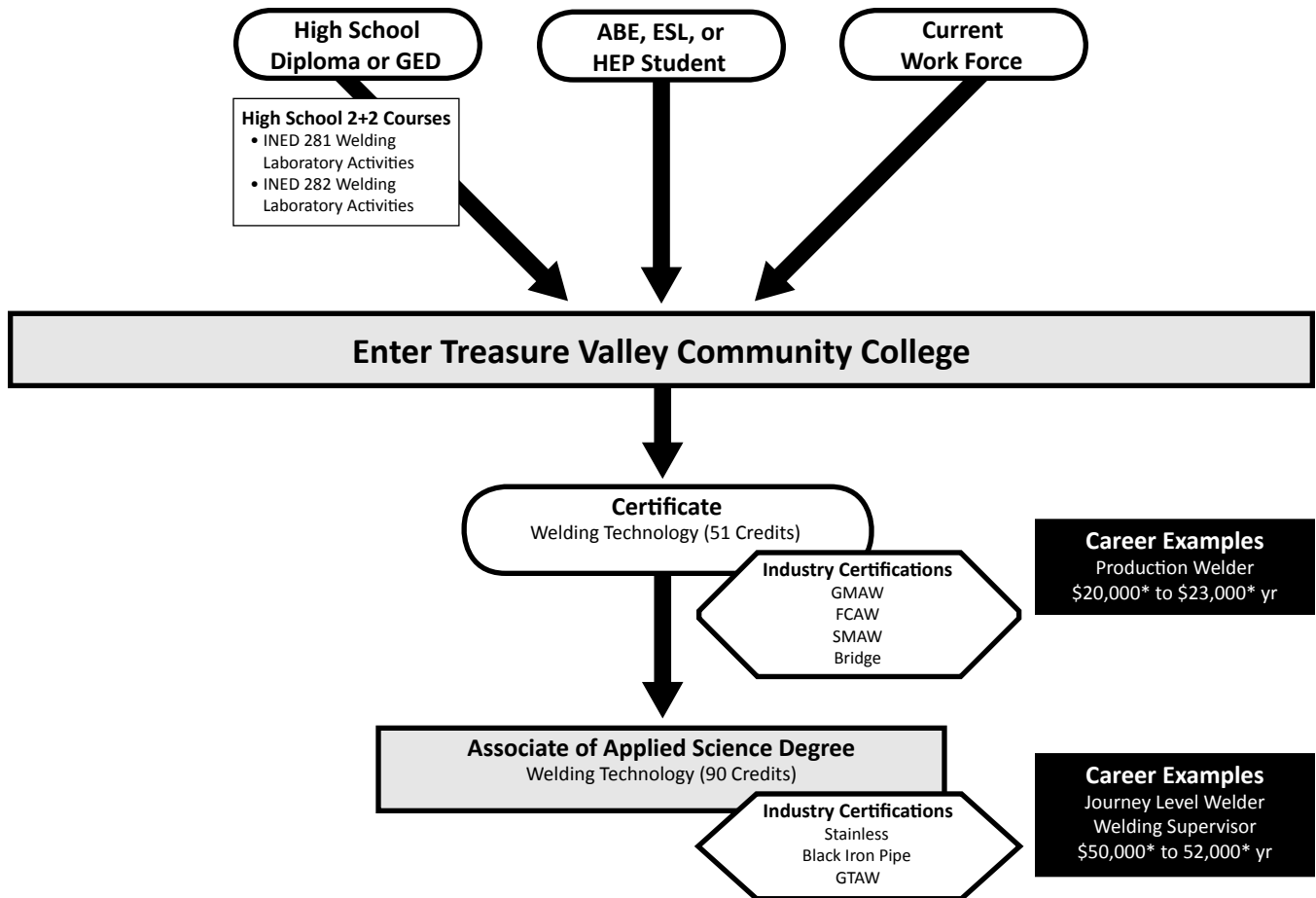
Chemeketa will give full credit for the Treasure Valley courses listed in the articulation agreements. To complete either degree at least 30 credits must be earned through Chemeketa.

### Welding Career Pathway Options

Department: Welding

Department Chair: Lane Hartnett (ext. 308)

Advising: Lane Hartnett (ext. 308)



\* Employment opportunities and salary levels will vary greatly with industry, size of business, and geographic region. Salary ranges are based on information from the Oregon Labor Market Information System 2009.

## Welding Technology CERTIFICATE

**Department:** Welding

**Department Chair:** Lane Hartnett (ext. 308)

**Advising:** Lane Hartnett (ext. 308)

Students successfully completing the certificate program are prepared to enter or advance in the welding field. Students may also choose individual certifications in MIG, TIG, Arc, and Pipe Welding.

All courses in this certificate may be applied to the Welding Technology Associate of Applied Science degree. A minimum **grade point average of 2.0** is required to obtain the certificate.

### DUAL CREDIT (2+2)

Students will receive credit for welding classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

### LEARNING OUTCOMES

Students who complete the Welding Certificate will be prepared to:

- Demonstrate proper set up of welding machines for appropriate welding processes.
- Demonstrate appropriate shop safety procedures and equipment.
- Demonstrate proper welding techniques for all positions in FCAW; SMAW; GTAW, and GMAW processes.

### RELATED EDUCATION REQUIREMENTS (10 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Workplace Communication
- **Computation Skills (3 credits)**
  - AET 211 Engineering Problems
- **Human Relations Skills (4 credits)**
  - PSYC 101 Psyc. of Human Relations or
  - BA 204 Teamwork Dynamics
  - INED 156 Employment Strategies

### REQUIRED COURSES FOR WELDING TECHNOLOGY CERTIFICATE (45 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
<b>• Fall Quarter</b>		
- WELD 150	Basic Welding I .....	4
- DRFT 112	General Drafting .....	3
- INED 281	Lab Activities .....	1
- WELD 160	Basic Welding II .....	4
- HPE 120	First Aid & CPR .....	3
<b>• Winter Quarter</b>		
- WELD 103	Electric Arc Welding .....	4
- WELD 104	MIG / FCAW Welding .....	4
- DRFT 162	Blueprint Reading/Pipe Layout .....	3
- WELD 170	Advanced Welding Processes .....	4
<b>• Spring Quarter</b>		
- WELD 102	Pipe Welding .....	4
- WELD 190	Test Procedures .....	4
- WELD 296	Welding Fabrications Practices .....	4
- INED 282	Lab Activities .....	3
<b>Total Number of Credits in Degree .....</b>		<b>55</b>

# WELDING TECHNOLOGY

## Associate of Applied Science Degree

### Welding Technology

#### ASSOCIATE OF APPLIED SCIENCE DEGREE

**Department:** Welding  
**Department Chair:** Lane Hartnett (ext. 308)  
**Advising:** Lane Hartnett (ext. 308)

#### PROGRAM OVERVIEW

This degree provides training for entry-level skills and related technical knowledge necessary for advancement in the metals welding industry. Upon satisfactory completion, students will be able to weld all types of joints including piping, perform oxyacetylene welding and cutting, shielded metal arc welding, gas metal arc welding, and gas tungsten arc welding; plan and layout work from drawings, blueprints, and other written specifications; demonstrate knowledge of the welding properties of metals and alloys; and establish and maintain a safe working environment.

This degree is designed for students wishing to directly enter the workforce. It is not designed to transfer to a four-year institution, although some courses are transferable. **Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan** and to identify and contact an advisor at their chosen transfer institution. A **minimum of 90 credits** and a minimum 2.0 grade point average are needed to graduate.

#### DUAL CREDIT (2+2)

Students will receive credit for agriculture classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulation agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

#### LEARNING OUTCOMES

Students who complete the Associate of Applied Science Welding program will be prepared to demonstrate:

- Demonstrate proper set up of welding machines for appropriate welding processes.
- Demonstrate appropriate shop safety procedures and equipment.
- Demonstrate proper welding techniques for all positions in FCAW; SMAW; GTAW, and GMAW processes.
- Proper welding technique for 6G position pipe welding.
- Advanced welding techniques in stainless steel and aluminum welding.
- Advanced layout and fabrication procedures for welding projects.

#### RELATED EDUCATION REQUIREMENTS (10 CREDITS)

All professional-technical degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be given the opportunity to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

- **Communication Skills (3 credits)**
  - WR 101 Workplace Communications
- **Computation Skills (3 credits)**
  - AET 211 Engineering Problems
- **Human Relations Skills (4 credits)**
  - PSYC 101 Psyc. of Human Relations **or**
  - BA 204 Teamwork Dynamics
  - INED 156 Employment Strategies

#### ELECTIVES (22 CREDITS)

Students should meet with their Welding advisor for a list of suggested electives.

#### REQUIRED COURSES FOR WELDING TECHNOLOGY PROGRAM (58 CREDITS)

Courses are noted according to the quarter most frequently offered and shown in the recommended or necessary sequence.

#### YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- WELD 150	Basic Welding I .....	4
- DRFT 112	General Drafting .....	3
- INED 281	Lab Activities .....	1
- AG 207	Agriculture Seminar .....	1
• <b>Winter Quarter</b>		
- WELD 103	Electric Arc Welding .....	4
- WELD 104	MIG / FCAW Welding .....	4
• <b>Spring Quarter</b>		
- INED 283	Lab Activities .....	4

#### YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
• <b>Fall Quarter</b>		
- DRFT 167	Computer Aided Design I .....	4
- WELD 160	Basic Welding II .....	4
- INED 133	Special Projects .....	3
- INED 281	Lab Activities .....	1
• <b>Winter Quarter</b>		
- INED 133	Special Projects .....	3
- DRFT 162	Blueprint Reading/Pipe Layout .....	3
- WELD 170	Advanced Welding Processes .....	4
• <b>Spring Quarter</b>		
- WELD 102	Pipe Welding .....	4
- WELD 190	Test Procedures .....	4
- WELD 296	Welding Fabrications Practices .....	4
- INED 284	Lab Activities .....	3

**Total Number of Credits in Degree .....90**