



COMMUNITY COLLEGE

Catalog Addendum  
2011-2013

# Addendum

2011-2013

[greenriver.edu](http://greenriver.edu)

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# GET STARTED

## MONEY FOR COLLEGE, TUITION

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### **Special Fees (Effective July 1, 2012)**

*Special Fees (All fees are subject to change)*

Admissions application fee	\$20 (was \$10)
Assessment	\$20
Assessment retakes	\$10/\$20
Cap and gown, tassel	\$24
General Education	
Development Test (GED)	\$150 (was \$75) – Effective October 1, 2012
GED Retest	\$15
Graduation application fee	\$25 (was \$10)
Locker fee (refundable)	\$10
Nelson Denny Test fee	\$10
Parking fine	\$25 (was \$10)
Student Easy Payment Plan STEP	\$25 (was \$20)
Transcript fee	\$10 (was \$3)
Transcript on-demand	\$25 (New)

### **Special Courses**

Parent-Child Education	\$14 per credit
Basic Skills	\$25 per quarter
Apprenticeship	\$48 per credit

# ACADEMIC POLICIES

## ADVANCE PLACEMENT – GENERAL EXAMINATION

The Advanced Placement® is a cooperative educational endeavor between secondary schools and colleges and universities. The program provides motivated high school students with the opportunity take college-level courses in a high school setting. Students who participate in the program not only gain college-level skills, but in many cases they also earn college credit while they are still in high school. AP courses are taught by high school teachers who follow course guidelines developed and published by the College Board.

Green River Community College grants credit in a variety of subject areas for students who have obtained a particular score on their College Board Advanced Placement examinations. These exams are given by the Educational Testing Service at locations around the country. Students must submit an official copy of AP scores. Upon evaluation of those scores, the student will be notified of acceptable credits. Credit is posted to the student transcript at the time of graduation only.

Below is the list showing division policies on granting placement or credit for AP examinations. Grades range from a high of 5 to 3; in most departments, credit and/or placement is awarded for grades of 3 or higher. In some cases, the student must consult the appropriate departmental advisor.

Examination Name	Minimum Score	Course (Credit)	General Education Category	Comment
Art 2D Design	4-5	ART 109 (5)	Humanities	
Art 2D Design	3	Elective	Elective	
Art 3D Design	4-5	ART 110 (5)	Humanities	
Art 3D Design	3	Elective	Elective	
Art History	3-5	Elective	Elective	
Art Studio (Drawing)	4-5	ART 105 (5)	Humanities	
Art Studio (Drawing)	3	Elective	Elective	
Art Studio (General)	3	Elective	Elective	
Biology	3-5	BIOL 100 (5)	Lab Science	Natural Science
Calculus AB	5	MATH& 151, 152 (10)	Math Science	Quantitative Skills/Reasoning
Calculus AB	3-4	MATH& 151 (5)	Math Science	Quantitative Skills/Reasoning
Calculus BC	4-5	MATH& 151, 152 (10)	Math Science	Quantitative Skills/Reasoning
Calculus BC	3	MATH& 151 (5)	Math Science	Quantitative Skills/Reasoning
Chemistry	5	CHEM& 161, 162, 163 (18)	Lab Science	Natural Science
Chemistry	4	CHEM& 161, 162 (12)	Lab Science	Natural Science
Chemistry	3	Elective	Elective	
Chinese Language	3-5	Elective	Elective	
Chinese Literature	3	Elective	Elective	
Computer Science A	3-5	CS& 131 (5)	Math Science	Quantitative Skills/Reasoning
Computer Science AB	3-5	CS& 141 (5)	Math Science	Quantitative Skills/Reasoning
Economics (Macro)	4-5	ECON& 202 (5)	Social Science	
Economics (Macro)	3	Elective	Elective	
Economics (Micro)	4-5	ECON& 201 (5)	Social Science	
Economics (Micro)	3	Elective	Elective	
English Language/Composition	5	ENG& 101 (5) and either ENGL 126, 127 or 128 (5)	Basic Skills/ Humanities	Communication & Humanities
English Language/Composition	4	ENGL& 101 (5)	Basic Skills/ Humanities	Communication & Humanities
English Language/Composition	3	Elective	Elective	

Examination Name	Minimum Score	Course (Credit)	General Education Category	Comment
English Literature/Composition	3-5	Elective	Elective	
Environmental Science	4-5	ENV S 204 (5)	Natural Science	
Environmental Science	3	Elective	Elective	
French Language	5	FRCH& 123 (5)	Humanities	
French Language	4	FRCH& 122 (5)	Humanities	
French Language	3	FRCH& 121 (5)	Humanities	
French Literature	3-5	Elective	Elective	
German Language	5	GERM& 123 (5)	Humanities	
German Language	4	GERM& 122 (5)	Humanities	
German Language	3	GERM& 121 (5)	Humanities	
German Literature	3-5	Elective	Elective	
Government (American)	4-5	POLS& 202 (5)	Social Science	
Government (American)	3	Elective	Elective	
Government (Comparative)	4-5	POLS& 204 (5)	Social Science	
Government (Comparative)	3	Elective	Elective	
History (European)	3-5	Elective	Elective	
History (US)	5	HIST& 136 and &137 (10)	Social Science	
History (US)	4	HIST& 136 or &137 (5)	Social Science	
History (US)	3	Elective	Elective	
History (World)	4-5	HIST 101, 102 or 103 (5)	Social Science	
History (World)	3	Elective	Elective	
Human Geography	3-4	GEOG& 200 (5)	Social Science	
Italian Language	3-5	Elective	Elective	
Japanese Language	3-5	Elective	Elective	
Japanese Literature	3-5	Elective	Elective	
Latin Literature	3-5	Elective	Elective	
Latin: Vergil	3-5	Elective	Elective	
Latin Literature & Latin: Vergil	3-5	Elective	Elective	
Music Listening Theory	3-5	Elective	Elective	
Music Theory	3-5	Elective	Elective	
Music Theory	3-5	Elective	Elective	
Music Theory	3-5	Elective	Elective	
Music: Aural (subscore)	3-5	Elective	Elective	
Music: Nonaural (subscore)	3-5	Elective	Elective	
Physics B	3-5	Elective	Elective	
Physics C (Elec and Mag)	3-5	Elective	Elective	
Physics C (Mechanics)	3-5	Elective	Elective	
Psychology	4-5	See Department faculty	Social Science	
Psychology	3	Elective	Elective	
Russian Language	3-5	Elective	Elective	
Russian Literature	5-5	Elective	Elective	
Spanish Language	5	SPAN& 123 (5)	Humanities	
Spanish Language	4	SPAN& 122 (5)	Humanities	
Spanish Language	3	SPAN& 121 (5)	Humanities	
Spanish Literature	3-5	Elective	Elective	
Statistics	4-5	MATH 256 (5)	Math Science	Quantitative Skills/Reasoning
Statistics	3	Elective	Elective	

#### Additional Mathematics Note:

The Mathematics Division can award Advanced Placement credits. If students are placed by the Mathematics Division at a level higher than the College Board Placement, they may receive additional credits. If students have not taken the AP Calculus test, but have done college-level work in high school and are placed by the Mathematics Division into either Math& 152 or Math& 153, they may receive additional credits.

If students' first mathematics course is Math& 152, they will earn credit for Math& 151. If students' first mathematics course is Math& 153, they will earn credit for both Math& 151 and Math& 152. Students may apply through the Mathematics Division and receive Mathematics Division Advanced Placement credits by challenging the course and paying the appropriate fees.

# ACADEMIC POLICIES

## GRADING SYSTEM AND POLICY

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Under Green River's numerical grading system, instructors may report grades from 4.0 to 1.0 in 0.1 increments, and the grade of 0.0. Grades in the range of 0.9 to 0.1 may not be assigned.

A	-	4.0	3.9	
A-	-		3.6	
B+	-		3.3	
B	-		3.0	
B-	-		2.7	
C+	-		2.3	
C	-		2.0	
C-	-		1.7	
D+	-		1.3	
D	-	1.0		Lowest passing grade
F	-	-0		Failure or unofficial withdrawal-no credit given

# DEGREES AND CERTIFICATE PROGRAMS

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The following lists the **changes** to the degrees and certificates offered at Green River Community College.

## TRANSFER DEGREES:

A. Note: There are no new transfer degree additions.

B. The following lists the changes to the transfer degrees/certificates:

AA-DTA	Associate in Arts-Direct Transfer Agreement
AB-DTA/MRP	Associate in Business-Direct Transfer Agreement/Major Related Program
AFA-DTA	Associate in Fine Arts Degree in Art – Direct Transfer Agreement
AEE-DTA/MRP	Associate in Elementary Education – Direct Transfer Agreement/Major Related Program
AM-DTA	Associate in Math Education – Direct Transfer Agreement
APreN-DTA/MRP	Associate in Pre-Nursing Degree – Direct Transfer Agreement/Major Related Program
AST- Opt 1	Associate in Biology, Environmental Science, Chemistry, Geology or Earth Science
AST- Opt 2	Associate in Engineering Technology, Computer Science, Physics or Atmospheric Science
AST-Opt 2/MRP	Associate in Mechanical, Civil, Aeronautical, Industrial or Materials Science Pre-Engineering
AST-Opt 2/MRP	Associate in Computer or Electrical Pre-Engineering
AST-Opt 2/MRP	Associate in Bioengineering and Chemical Pre-Engineering
A-Cert	Art - Studio
A-Cert	Diversity Study
A-PP	Natural Resources

A-PP – Associate in Pre-Professional • DTA – Direct Transfer Agreement • MRP – Major Related Programs

C. The following lists the cancelled transfer degrees:

AS-T	Associate in Biology Education
AS-T	Associate in Chemistry Education
AS-T	Associate in General Science Education
AS-T	Associate in Physics Education

D. Washington 45is a list of year transfer course, not a degree/certificate program. This is new to Green River Community College.





## ASSOCIATE IN BUSINESS DEGREE

**Direct Transfer Agreement/Major Related Program (AB-DTA/MRP) - Minimum of 90 Credits**

The Associate in Business degree is generally pursued by students who plan to transfer to a four-year university as a business or accounting major after completing their first two years at Green River. It is designed to meet the distribution requirements at universities in Washington State by fulfilling the general requirements taken by freshman and sophomores. The degree also indicates that a student has completed a two-year business program, which may be of value in career or lifetime goals.

To earn this degree, students must complete a minimum of 90 quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0 and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students are responsible for knowing transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

### 1. BASIC SKILLS (20 credits)

*Any course used to satisfy Basic Skills distribution may not be used to satisfy any other portion of the Associate in Business degree requirements.*

#### A. Communication Skills: (10 credits)

*Courses in this area support the written communication learning outcome.*

**English &101 and one of the following:  
English 126 or 127 or 128**

#### B. Quantitative Skills/Symbolic Reasoning: (10 credits)

*Courses in this area support the quantitative and symbolic reasoning learning outcome.*

**Mathematics 147 and &148**

### 2. HUMANITIES/FINE ARTS/ ENGLISH (15 credits)

*(Minimum 15 credits from three separate areas.) No more than 5 credits in foreign language at the 100 level. No more than 5 credits in performance/skills courses (all courses in bold type) can be applied toward the Humanities/Fine Arts/English distribution.*

**Art &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257**

**Chinese 111, &121, &122, &123**

**Communication Studies &102, &210, 212, 215, &220, &230, 238, 245, 265**

**Dance 101, 102, 103, 110, 204**

**Drama &101, 111, 112, 113, 151, 152, 153**

**English &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257**

**Film 120, 121, 141**

**French &121, &122, &123, &221**

**German &121, &122, &123**

**Humanities 100, 110, 133, 142, 146, 160, 186, 190, 191, 224, 272**

**Japanese &121, &122, &123**

**Journalism 101, 150, 151, 152, 254**

**Music 101, 103, 104, &105, 107, 108, 109,**

110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232

**Philosophy &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200, 206, 210, 220, 236, 238, 240, 243**

**Photography 101, 102, 103, 111**

**Spanish 110, &121, &122, &123, &221, &222, &223**

### 3. SOCIAL SCIENCE (20 credits)

*No more than 10 credits from any one discipline*

#### A. Economics &201 and &202 (10 credits)

#### B. Business Management &201\* (5 credits)

*\*Political Science &200 is a prerequisite to Business Management &201.*

#### C. Choose 5 credits from the following areas: **American Minority and Ethnic Studies 100, 150, 211**

**Anthropology &100, &204, &205, &206, &207, &210, 211, &216, &234, &235, &236, 273**

**Business Management &101**

**Criminal Justice &101, &105, &110, &240**  
**Geography &100, 120, 123, 190, &200, 201, 205**

**History 101, 102, 103, 120, 122, 135, &136, &137, &214, &215, 220, 224, 226, 228, 230, 231, 232, 233, 235, 237, 240, 245, 250**

**Political Science &101, &200, &202, &203, &204, 207, 209**

**Psychology &100, &180, &200, 201, 209, &220, 225, 240**

**Social Science 160, 211**

**Sociology &101, &201, 202, 205, 215, 220, 230, 240, 245, 260**

### 4. NATURAL SCIENCE (15 credits)

#### A. Mathematics 256 (5 credits)

#### B. Natural Science (10 credits)

*(5 credits from the lab sciences, courses designated in bold type, must be included)*

**Anatomy-Physiology 100, 102, 103, 104, 210**

**Astronomy &100 or &101**

**Biology &100, 103, 110, 127, &160, &211, &212, &213, &241, &242, &260**

**Chemistry &121, &131, &140, &161, &162, &163, &261, &262, &263**

**Environmental Science 204**

**Geology &101, 106, 107, 200, 206, &208**

**Interdisciplinary Science 101, 102, 103**

**Nutrition &101**

**Oceanography &101**

**Physics 107, &110, &114, &115, &116, 154, 155, 156, &221, &222, &223, 225, 229**

### 5. ACCOUNTING (15 credits)

**Accounting &201, &202, &203**

### 6. FITNESS/WELLNESS (2-3 credits)

*Fitness-related classes:*

**Physical Education 101, 102, 103, 111, 131, 149, 160, 165, 169**

*No more than 3 credits total of physical education coursework (including your elective credits) may be applied to the AB-DTA degree.*

*Degree exceptions for fitness/wellness courses must include medical documentation submitted to Disability Support Services (DSS) and documentation to the Degree Exception Committee.*

### 7. ELECTIVES (2-3 credits)

All courses numbered 100 or higher, with the exception of Basic Skills and Physical Education may be taken as electives.

**Note:** *Students choose electives in consultation with their Green River advisor and transfer university admissions representative.*

### 8. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policies and each student is responsible for knowing transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.

## ASSOCIATE IN ELEMENTARY EDUCATION

**Direct Transfer Agreement/Major Related Program (AEE-DTA/MRP) - Minimum of 94-95 Credits**

The Associate in Elementary Education degree is intended for all future elementary teachers. It provides a broad foundation in liberal arts and beginning coursework in teacher education that is needed upon transfer to most teacher certification programs at Washington state universities. It is designed to provide early experiences in teacher education, including opportunities for hands-on work in local classrooms and specific courses for elementary teachers.

To earn this degree, students must complete a minimum of 94-95 quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0 and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College.

Students are responsible for knowing the transfer requirements and policies, as well as specific course choices and GPA requirements, and are urged to consult the catalog of the institution to which they plan to transfer.

### 1. BASIC SKILLS (25 credits)

#### A. Communication Skills (10 credits)

*Courses in this area support the written communication learning outcome.*

**English &101** and one of the following:

**English 126 or 127 or 128**

#### B. Quantitative Skills/ Symbolic Reasoning (15 credits)

*Courses in this area support the quantitative and symbolic reasoning learning outcome.*

**Mathematics 170, 171, and 172**

### 2. HUMANITIES/FINE ARTS/ENGLISH (15 credits)

*Minimum 15 credits from three separate areas.*

A. **Communication Studies &220** (5 credits)

B. **English &112, &113, &114, 165, 180, 190 or &236** (5 credits)

C. *Choose 5 credits from the following areas:*

**Art &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257**

**Chinese 111, &121, &122, &123**

**Drama &101, 111, 112, 113, 151, 152, 153**

**Film 120, 121, 141**

**French &121, &122, &123, &221**

**German &121, &122, &123**

**Humanities 100, 110, 133, 142, 146, 160, 186, 190, 191, 224, 272**

**Japanese &121, &122, &123**

**Journalism 101, 150, 151, 152, 254**

**Music 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**

**Philosophy &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200, 206, 210, 220, 236, 238, 240, 243**

**Photography 101, 102, 103, 111**

**Spanish 110, &121, &122, &123, &221, &222, &223**

### 3. SOCIAL SCIENCE (25 credits)

A. **History 101, 102, 103, or 231** (5 credits)

B. **History &136 or &137** (5 credits)

C. *Select 15 credits from two (2) different disciplines from the following:*

**American Minority and Ethnic Studies**

100 or

**Anthropology &206**

**Psychology &100**

**Sociology &101, 220 or 240**

**Social Science 160**

### 4. NATURAL SCIENCES (15 credits)

**Interdisciplinary Science 101, 102 and 103**

### 5. ADDITIONAL COURSES (7 credits)

**Education &205 and 270**

### 6. LIFETIME FITNESS/ WELLNESS (2-3 credits)

**Fitness-related classes:**

**Physical Education 101, 102, 103, 111, 131, 149, 160, 165, 169**

*Degree exceptions for fitness/wellness courses must include medical documentation submitted to Disability Support Services (DSS) and documentation to the Degree Exception Committee.*

### 7. ELECTIVES (Minimum of 5 credits)

All courses numbered 100 or higher, with the exception of Basic Skills and Physical Education may be taken as electives. Courses should include preparation for a major and/or general interest/leisure-time activity. Students should consult their transfer institution.

### 8. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policies and each student is responsible for knowing the transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.

## Associate in Fine Arts in Art

### Direct Transfer Agreement (AFA-DTA) - Minimum of 105-106 Credits

The Associate in Fine Arts degree in Art is generally pursued by students who plan to transfer to a four-year university. However, completion of this degree does not guarantee admission as an art major. This degree offers students a broad foundation in advanced education or a career in art.

Students granted the degree meet all of the requirements of the Washington state Direct Transfer Agreement (DTA).

A portfolio highlighting the student's best work completed at Green River Community College, emphasizing originality, facility, and exploration is highly recommended. Portfolio presentation is usually the determining factor in acceptance for Fine Arts major, and this degree provides the structure for the preparation of a strong portfolio.

To earn this degree, students must complete a minimum of 105-106 quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0 and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College.

Students are responsible for knowing the transfer requirements and policies, as well as specific course choices and GPA requirements, and are urged to consult the catalog of the institution to which they plan to transfer.

#### 1. BASIC SKILLS (15 credits)

Any course used to satisfy Basic Skills distribution may not be used to satisfy any other portion of the Associate in Fine Arts degree requirements.

##### A. Communication Skills: (10 credits)

Courses in this area support the written communication learning outcome.

**English &101 and** one of the following:

**English 126 or 127 or 128**

##### B. Quantitative Skills/Symbolic Reasoning: (5 credits—explained below)

Courses in this area support the quantitative and symbolic reasoning learning outcome.

1. Completion of Mathematics course for which Intermediate Algebra (Math 097) or higher is a prerequisite.
2. Completion of Engineering 106, &204, &214 or &215.
3. Completion of **Philosophy &120\***

\* If option 3 is chosen, the student must, in addition, satisfy one of the following before graduation:

- A) COMPASS placement in Math 106 or Math&107 or higher; or
- B) Complete Intermediate Algebra (Math 097) with a grade of 2.0 or higher.

#### 2. HUMANITIES/FINE ARTS/ ENGLISH (15 credits)

Three separate areas.

**Art 212 or 213 or 214**

**Communication Studies &220  
Photography 101 or 111**

#### 3. SOCIAL SCIENCE (15 credits)

Minimum 15 credits from three separate areas or minimum 15 credits from two separate areas with a 200-level course required within the two course emphasis.

**American Minority and Ethnic Studies 100, 150, 211**

**Anthropology &100, &204, &205, &206, &207, &210, 211, &216, &234, &235, &236, 273**

**Business &101, &201**

**Criminal Justice &101, &105, &110, &240**

**Economics 100, 101, &201, &202**

**Geography &100, 120, 123, 190, &200, 201, 205**

**History 101, 102, 103, 120, 122, 135, &136, &137, &214, &215, 220, 224, 226, 228, 230, 231, 232, 233, 235, 237, 240, 245, 250**

**Political Science &101, &200, &202, &203, &204, 207, 209**

**Psychology &100, &180, &200, 201, 209, &220, 225, 240**

**Social Science 160, 211**

**Sociology &101, &201, 202, 205, 215, 220, 230, 240, 245, 260**

#### 4. NATURAL SCIENCE (15 credits)

Minimum of 15 credits from at least two separate areas (except for completion of IDS 101, 102, and 103 sequence which will satisfy the full natural science and lab science requirement). Ten credits must be chosen from List A, including a minimum of 5 credits from lab sciences (courses designated in bold

type). The additional 5 credits may be taken from either List A or List B.

##### LIST A

**Anatomy-Physiology 100, 102, 103, 104, 210**

**Astronomy &100 or &101**

**Biology &100, 103, 110, 127, &160, &211, &212, &213, &241, &242, &260**

**Chemistry &121, &131, &140, &161, &162, &163, &261, &262, &263**

**Environmental Science 204**

**Geology &101, 106, 107, 200, 206, &208**

**Interdisciplinary Science 101, 102, 103**

**Oceanography &101**

**Physics 107, &110, &114, &115, &116, 154, 155, 156, &221, &222, &223, 225, 229**

##### LIST B

**Anthropology &205**

**Computer Science &131, 132, &141, 145**

**Engineering &104, 106, 140, &204, &214, &215, &224, &225**

**Mathematics 106, &107, 108, &141, &142, 147, &148, &151, &152, &153, 170, 171, 172, 210, 238, 240, &254, 256**

**Nutrition &101**

**Philosophy &120, 215**

#### 5. SPECIFIC REQUIREMENTS (43 credits)

##### LIST A (20 credits)

**Art 105, 109, 114, 119**

##### LIST B (23 credits)

Class selection depends on the student's

area of study. After consultation with an Art advisor, a minimum of 23 credits are required from the following:

**Art 106, 107, 110, 120, 122, 130, 133, 135, 180, 212\*, 213\*, 214\*, 219, 251, 252, 253, 255, 256, 257**  
**Photo 101\*, 102, 103, 111\*, 112, 113**

\* Students cannot use this course if previously taken under a different category.

#### 6. LIFETIME FITNESS/ WELLNESS (2-3 credits)

**Physical Education 101, 102, 103, 111, 131, 149, 160, 165, 169**

No more than 3 credits total of physical education coursework (including your elective credits) may be applied to the AM-DTA degree.

*Degree exceptions for fitness/wellness courses must include medical documentation submitted to Disability Support Services (DSS) and documentation to the Degree Exception Committee.*

#### 7. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policies and each student is responsible for knowing the transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.

## Associate in Math Education

### Direct Transfer Agreement (AM-DTA) - Minimum of 90 Credits

The Associate in Math Education degree was created to aid students interested in careers as secondary math teachers. Future secondary teachers must pursue a major in their field, as well as entrance into a school of education. As a result, there is little room for electives.

This degree is intended to ensure that graduates of Green River are as well prepared as their counterparts at four-year colleges. The transferability of these degrees is backed by a statewide articulation agreement with teacher-training universities. In addition, this degree is accepted by baccalaureate institutions in the state of Washington under the Direct Transfer Agreement. It will fulfill the general education requirements at Washington state transfer institutions.

Apart from the requirements embedded within the degree, students should check specific requirements of their intended transfer schools. This is especially true in the area of field experience, since teacher certification institutions vary in terms of the quality and quantity of experience required.

To earn this degree, students must complete a minimum of 90-quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0 and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students are responsible for knowing the transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

#### 1. BASIC SKILLS (15 credits)

*Any course used to satisfy Basic Skills distribution may not be used to satisfy any other portion of the Associate in Math Education degree requirements.*

##### A. Communication Skills (10 credits)

*Courses in this area support the written communication learning outcome.*

**English** &101 and one of the following:

**English** 126 or 127 or 128

##### B. Quantitative Skills/Symbolic Reasoning (5 credits)

*Courses in this area support the quantitative and symbolic reasoning learning outcome.*

**Mathematics** &151

#### 2. HUMANITIES/FINE ARTS/ ENGLISH (15 credits)

*No more than 10 credits allowed from any one discipline.*

##### A. Communication Studies &220

*B. No more than 5 credits allowed from any one discipline. No more than 5 credits in foreign language at the 100 level. No more than 5 credits in performance/skills courses (all courses in bold type) can be applied towards*

*Humanities/Fine Arts/English distribution.*

**Art** &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257

**Chinese** 111, &121, &122, &123  
**Communication Studies** &102, &210, 212, 215, &230, 238, 245, 265

**Dance** 101, 102, 103, 110, 204

**Drama** &101, 111, 112, 113, 151, 152, 153

**English** &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257

**Film** 120, 121, 141

**French** &121, &122, &123, &221

**German** &121, &122, &123

**Humanities** 100, 110, 133, 142, 146, 160, 186, 190, 191, 224, 272

**Japanese** &121, &122, &123

**Journalism** 101, 150, 151, 152, 254

**Music** 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232

**Philosophy** &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200, 206, 210, 220, 236, 238, 240, 243

**Photography** 101, 102, 103, 111

**Spanish** 110, &121, &122, &123, &221, &222, &223

#### 3. SOCIAL SCIENCE (15 credits)

*No more than 10 credits from any one discipline.*

##### A. Psychology &100

**B. American Minority and Ethnic Studies** 100 or **Anthropology** &206 (5 credits)

*C. A minimum of 5 credits from the following:*

**Anthropology** &100, &204 &205, &206, &207, &210, 211, &216, &234, &235, &236, 273

**Economics** 100, 101, &201, &202

**History** 101, 102, 103, 120, 122, 135, &136, &137, &214, &215, 220, 224, 226, 228, 230, 231, 232, 233, 235, 237, 240, 245, 250

**Political Science** &101, &200, &202, &203, &204, 207, 209

**Psychology** &180, &200, 201, 209, &220, 225, 240

**Social Science** 160, 211

**Sociology** &101, &201, 205, 215, 220, 230, 240, 245, 260

#### 4. NATURAL SCIENCES (15 credits)

*No more than 10 credits allowed from any one discipline.*

##### A. Mathematics &152

*B. A minimum of 10 credits from the following list with 5 credits from the lab sciences (courses designated in bold type) must be included.*

**Astronomy** &101

**Biology** &100, 103, 110, 127, &160, &211, &212, &213, &260

**Chemistry** &121, &131, &140, &161, &162, &163, &261, &262, &263

**Geology** &101, 106, 107, 200, 206, &208

**Physics** 107, &110, &114, &115, &116, 154, 155, 156, &221, &222, &223, 225, 229

#### 5. ADDITIONAL COURSES (25-26 credits)

**Education** &205

**Health Education** 190

**Mathematics** &153, 240 and &254

**Lifetime Fitness/Wellness** (2-3 credits)

**Physical Education** 101, 102, 103, 111, 131, 149, 160, 165, 169

*No more than 3 credits total of physical education coursework (including your elective credits) may be applied to the AM-DTA degree.*

*Degree exceptions for fitness/wellness courses must include medical documentation submitted to Disability Support Services (DSS) and documentation to the Degree Exception Committee.*

#### 6. ELECTIVES (4-5 credits)

All courses numbered 100 or higher, with the exception of Basic Skills and Physical Education may be taken as electives. Courses should include preparation for a major and/or general interest/leisure-time activity. Students should consult their transfer institution.

#### 7. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policies and each student is responsible for knowing the transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.

## Associate in Pre-Nursing Degree

**Direct Transfer Agreement/Major Related Program (A-PreN-DTA/MRP) - Minimum of 91 Credits**

The Associate in Pre-Nursing degree is general pursued by students who plan to transfer to a four-year college or university at the junior level to a Bachelor of Science in Nursing Program (BSN). Four-year schools accepting Pre-Nursing Transfer degree include Seattle University, Seattle Pacific University, University of Washington-Seattle, Washington State University, Pacific Lutheran University, Northwest University and Walla Walla University. This degree is designed to meet the distribution requirements at universities in Washington State, by fulfilling the general requirements taken by freshmen and sophomores.

To earn this degree, students must complete a minimum of 91-quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0 and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College.

Students are responsible for knowing the transfer requirements and policies, as well as specific course choices and GPA requirements, and are urged to consult the catalog of the institution to which they plan to transfer.

### 1. BASIC SKILLS (15 credits)

#### A. Communication Skills (10 credits)

*Courses in this area support the written communication learning outcome.*

**English &101 and 128**

#### B. Quantitative Skills/ Symbolic Reasoning (5 credits)

*Courses in this area support the quantitative and symbolic reasoning learning outcome.*

**Mathematics 256**

### 2. HUMANITIES/FINE ARTS/ ENGLISH (15 credits)

*No more than 10 credits from any one discipline.*

#### A. Communication Studies &220 (5 credits)

*B. Minimum of 10 credits from the following. No more than 5 credits in foreign language at the 100-level. No more than 5 credits in performance/ skills courses (all courses in bold type)*

**Art &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257**

**Chinese 111, &121, &122, &123**

**Communication Studies &102, &210, 212, 215, &230, 238, 245, 265**

**Dance 101, 102, 103, 110, 204**

**Drama &101, 111, 112, 113, 151, 152, 153**

**English &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257**

**Film 120, 121, 141**

**French &121, &122, &123, &221**

**German &121, &122, &123**

**Humanities 100, 110, 133, 142, 146, 160, 186, 190, 191, 224, 272**

**Japanese &121, &122, &123**

**Journalism 101, 150, 151, 152, 254**

**Music 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222,**

**227, 228, 229, 230.1, 230.2, 230.3, &231, &232**

**Philosophy &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200, 206, 210, 220, 236, 238, 240, 243**

**Photography 101, 102, 103, 111**

**Spanish 110, &121, &122, &123, &221, &222, &223**

### 3. SOCIAL SCIENCE (15 credits)

**A. Psychology &100**

**B. Psychology &200**

*C. A minimum of 5 credits:*

**Sociology &101, &201, 202, 205, 215, 220, 230, 240, 245, or 260**

### 4. NATURAL SCIENCES

*(36 credits with a minimum of 25 credits lab-based)*

**A. Biology &211 and &260**

**B. Biology &241 and &242**

**C. Chemistry &121 and &131**

**D. Nutrition & 101**

### 5. ADDITIONAL COURSES

*Select 10 credits from the following:*

**American Minority and Ethnic Studies 100**

**Anatomy-Physiology 100**

**Anthropology &205, &235**

**Communication Studies 238**

**Mathematics 147**

### 6. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policies and each student is responsible for knowing the transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.

# Associate in Biology, Environmental Science, Chemistry, Geology or Earth Science

Associate in Science Transfer Degree – Option 1 (AST-1) - Minimum of 90 Credits

The Associate in Science Transfer degree Option 1 encompasses some general education courses required of first- and second-year students and is intended to prepare students planning to transfer to a university in the science-related fields. It will give students the broad background needed before beginning more specialized, upper-division courses. The curriculum is not intended to fulfill General Education/University (GER/GUR) requirements, but to prepare prospective transfer science students to enter the state universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 90-quarter credits in courses numbered 100 or above (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative grade point average of 2.0, and earn a minimum of 24 credits, including the last quarter in residence, at Green River Community College.

Students are responsible for knowing transfer requirements and policies, as well as specific course choices and GPA requirements, and are urged to consult the catalog of the institution for which they plan to transfer.

## 1. BASIC SKILLS (20 credits)

*Any course used to satisfy Basic Skills distribution may not be used to satisfy any other portion of the Associate in Science-Transfer Option 1 degree requirements.*

### A. Communication Skills (5 credits)

*Courses in this area support the written communication learning outcome.*

#### **English &101**

*After consultation with a Science advisor, five additional credits are recommended from the following: English 126 or 127 or 128*

### B. Quantitative Skills/Symbolic Reasoning (15 credits)

*Courses in this area support the quantitative and symbolic reasoning learning outcome.*

#### **Mathematics &151 and &152 and &153 or 256**

## 2. HUMANITIES/FINE ARTS/ ENGLISH and SOCIAL SCIENCE (15 credits)

*Select 15 credits from the Humanities/ Fine Arts/English and Social Science with at least five (5) credits taken from each and from three (3) separate areas.*

### A. Humanities/Fine Arts/ English

*A minimum of 5 credits from the following. No more than 5 credits in foreign language at the 100 level. No more than 5 credits in performance or skills courses (all courses in bold type) may be applied to the Humanities/ Fine Arts/English distribution.*

**Art** &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257

**Chinese** 111, &121, &122, &123  
**Communication Studies** &102,

&210, 212, 215, &220, &230, 238, 245, 265

**Dance** 101, 102, 103, 110, 204

**Drama** &101, 111, 112, 113, 151, 152, 153

**English** &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257

**Film** 120, 121, 141

**French** &121, &122, &123, &221

**German** &121, &122, &123

**Humanities** 100, 110, 133, 142, 146, 160, 186, 190, 191, 224, 272

**Japanese** &121, &122, &123

**Journalism** 101, 150, 151, 152, 254

**Music** 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232

**Philosophy** &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200, 206, 210, 220, 236, 238, 240, 243

**Photography** 101, 102, 103, 111

**Spanish** 110, &121, &122, &123, &221, &222, &223

### B. SOCIAL SCIENCE

*A minimum 5 credits from the following:*

**American Minority and Ethnic Studies** 100, 150, 211

**Anthropology** &100, &204, &205, &206, &207, &210, 211, &216, &234, &235, &236, 273

**Business Management** &101, &201

**Criminal Justice** &101, &105, &110, &240

**Economics** 100, 101, &201, &202  
**Geography** &100, 120, 123, 190,

&200, 201, 205

**History** 101, 102, 103, 120, 122, 135, &136, &137, &214, &215, 220, 224, 226, 228, 230, 231, 232, 233, 235, 237, 240, 245, 250

**Political Science** &101, &200, &202, &203, &204, 207, 209

**Psychology** &100, &180, &200, 201, 209, &220, 225, 240

**Social Science** 160, 211

**Sociology** &101, &201, 202, 205, 215, 220, 230, 240, 245, 260

## 3. SPECIFIC REQUIREMENTS (50 credits)

*Class selection depends on the student's area of study. It is strongly suggested that students beginning their science sequence complete it at the originating college. After consultation with a Science advisor, a total of 50 credits are required from the following:*

### A. Chemistry &161, &162, and &163 (18 credits)

*(Chemistry &261, &262, and &263 may be substituted with prior consultation with a Science/Engineering advisor.)*

### B. Select 15-18 credits (to be taken in sequence order) from the following:

1. **Biology** &211, &212 and &213

or

2. **Physics** &114, &115 and &116

or

3. **Physics** &221, &222 and &223

### C. Natural Science

*Select 14-17 credits from the following after consultation with a Science advisor.*

**Anatomy-Physiology** 210

**Biology** &160, &211, &212, &213, &241, &242, &260

**Chemistry** &161, &162, &163, &261, &262, &263

**Engineering** 106, &214, &224

**Environmental Science** 204

**Geology** &101, 206

**Mathematics** 106, &141, &142, &153, 238, 240, &254, 256

**Philosophy** &120, 215

**Physics** &114, &115, &116, 154, 155, 156, &221, &222, &223, 225, 229

## 4. LIFETIME FITNESS/WELLNESS (2-3 credits)

*Select one course from the following:*

**Physical Education** 101, 102, 103, 111, 131, 149, 160, 165, 169

*Degree exceptions for fitness/wellness courses must include medical documentation submitted to Disability Support Services (DSS) and documentation to the Degree Exception Committee.*

## 5. ELECTIVES (2-3 credits)

All courses numbered 100 or higher, with the exception of Basic Skills and Physical Education may be taken as electives.

**English 126, 127 or 128 may be used**

## 6. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policies and each student is responsible for knowing the transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.

# Associate in Engineering, Engineering Technology, Computer Science, Physics or Atmospheric Science

## Associate in Science Transfer Degree – Option 2 (AST-2) - Minimum of 90 Credits

The Associate in Science Transfer degree Option 2 encompasses some general education courses required of first- and second-year students and is intended to prepare students planning to transfer to a university in the science-related fields. It will give students the broad background needed before beginning more specialized, upper-division courses. The curriculum is not intended to fulfill General Education/University (GER/GUR) requirements, but to prepare prospective transfer science students to enter the state universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 90-quarter credits in courses numbered 100 or above (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative grade point average of 2.0, and earn a minimum of 24 credits, including the last quarter in residence, at Green River Community College.

Students are responsible for knowing transfer requirements and policies, as well as specific course choices and GPA requirements, and are urged to consult the catalog of the institution for which they plan to transfer.

### 1. BASIC SKILLS (20 credits)

*Any course used to satisfy Basic Skills distribution may not be used to satisfy any other portion of the Associate in Science-Transfer Option 2 degree requirements.*

#### A. Communication Skills (5 credits)

*Courses in this area support the written communication learning outcome.*

**English** &101

#### B. Quantitative Skills/Symbolic Reasoning (15 credits)

*Courses in this area support the quantitative and symbolic reasoning learning outcome.*

**Mathematics** &151 and &152; and &153 or 256

### 2. HUMANITIES/FINE ARTS/ ENGLISH and SOCIAL SCIENCE (15 credits)

*Select 15 credits from the Humanities/ Fine Arts/English and Social Science with at least five (5) credits taken from each and from three (3) separate areas.*

#### A. Humanities/Fine Arts/English

*A minimum of 5 credits from the following. No more than 5 credits in foreign language at the 100 level. No more than 5 credits in performance or skills courses (all courses in bold type) may be applied to the Humanities/Fine Arts/English distribution.*

**Art** &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257  
**Chinese** 111, &121, &122, &123  
**Communication Studies** &102, &210, 212, 215, &220, &230, 238, 245, 265  
**Dance** 101, 102, 103, 110, 204  
**Drama** &101, 111, 112, 113, 151,

152, 153

**English** &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257

**Film** 120, 121, 141

**French** &121, &122, &123, &221

**German** &121, &122, &123

**Humanities** 100, 110, 133, 142, 146, 160, 186, 190, 191, 224, 272

**Japanese** &121, &122, &123

**Journalism** 101, 150, 151, 152, 254

**Music** 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232

**Philosophy** &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200, 206, 210, 220, 236, 238, 240, 243

**Photography** 101, 102, 103, 111

**Spanish** 110, &121, &122, &123, &221, &222, &223

#### B. SOCIAL SCIENCE

*A minimum 5 credits from the following:*

**American Minority and Ethnic Studies** 100, 150, 211

**Anthropology** &100, &204, &205, &206, &207, &210, 211, &216, &234, &235, &236, 273

**Business** &101, &201

**Criminal Justice** &101, &105, &110, &240

**Economics** 100, 101, &201, &202

**Geography** &100, 120, 123, 190, &200, 201, 205

**History** 101, 102, 103, 120, 122,

135, &136, &137, &214, &215, 220, 224, 226, 228, 230, 231, 232, 233, 235, 237, 240, 245, 250

**Political Science** &101, &200, &202, &203, &204, 207, 209

**Psychology** &100, &180, &200, 201, 209, &220, 225, 240

**Social Science** 160, 211

**Sociology** &101, &201, 202, 205, 215, 220, 230, 240, 245, 260

### 3. SPECIFIC REQUIREMENTS (50 credits)

*Class selection depends on the student's area of study. It is strongly suggested that students beginning their science sequence complete it at the originating college. After consultation with a Science advisor, a total of 50 credits are required from the following:*

#### A. Physics &221, &222, and &223 (15 credits)

*(Physics &114, &115, and &116 may be substituted with prior consultation with a Science/ Engineering advisor.)*

#### B. Select 6 credits from the following:

**Chemistry** &161, &162, &163, &261, &262 or &263

#### C. Natural Science

*Select 29 credits from the following after consultation with a Science/Engineering advisor.*

**Anatomy-Physiology** 210

**Biology** &160, &211, &212, &213, &241, &242, &260

**Chemistry** &161, &162, &163, &261, &262, &263

**Computer Science** &131, 132, &141, 145

**Engineering** 106, 140, &214, &215, &224, &225, 250

**Environmental Science** 204

**Geology** &101, 206

**Mathematics** 106, &141, &142, &153, 238, 240, &254, 256

**Philosophy** &120, 215

**Physics** &114, &115, &116, 154, 155, 156, &221, &222, &223, 225, 229

### 4. LIFETIME FITNESS/WELLNESS (2-3 credits) Select one course from the following:

**Physical Education** 101, 102, 103, 111, 131, 149, 160, 165, 169

*Degree exceptions for fitness/wellness courses must include medical documentation submitted to Disability Support Services (DSS) and documentation to the Degree Exception Committee.*

### 5. ELECTIVES (2-3 credits)

All courses numbered 100 or higher, with the exception of Basic Skills and Physical Education may be taken as electives.

**English** 126, 127 or 128 may be used

### 9. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policies and each student is responsible for knowing the transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.

## Associate in Mechanical, Civil, Aeronautical, Industrial, or Materials Science Pre-Engineering

Associate in Science Transfer Degree/Major Related Program – Option 2 (AST-2/MRP) - Minimum of 112 Credits

The Associate in Mechanical, Civil, Aeronautical, Industrial, or Materials Science Pre-Engineering AST-Option 2/MRP encompasses some general education courses required of first- and second-year students and is intended to prepare students planning to transfer to a university in the science-related fields. It will give students the broad background needed before beginning more specialized, upper-division courses. The curriculum is not intended to fulfill General Education/University (GER/GUR) requirements, but to prepare prospective transfer science students to enter the state universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 112-quarter credits in courses numbered 100 or above (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative grade point average of 2.0, and earn a minimum of 24 credits, including the last quarter in residence, at Green River Community College. Students should include some 200-level classes in their course of study.

Students are responsible for knowing transfer requirements and policies, as well as specific course choices and GPA requirements, and are urged to consult the catalog of the institution for which they plan to transfer.

### 1. BASIC SKILLS (35 credits)

#### A. Communication Skills (5 credits)

*Courses in this area support the written communication learning outcome.*

**English &101**

#### B. Quantitative Skills/ Symbolic Reasoning (30 credits)

*Courses in this area support the quantitative and symbolic reasoning learning outcome.*

**Mathematics &151, &152 &153, 238, 240 and &254**

### 2. HUMANITIES/FINE ARTS/ENGLISH and SOCIAL SCIENCE (15 credits)

*Minimum 5 credits each from humanities/fine arts/English and social science areas plus 5 additional credits in either area (for a total of 15 credits). Three separate areas.*

#### A. Humanities/Fine Arts/ English

*A minimum of 5 credits from the following. No more than 5 credits in any one discipline. No more than 5 credits in foreign language at the 100 level. No more than 5 credits in performance/skills courses (all courses in bold type) may be applied to the Humanities/Fine Arts/English distribution.*

**Art &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 133, 135,**

212, 213, 214, 219, 251, 252, 253, 255, 256, 257

**Chinese 111, &121, &122, &123**

**Communication Studies &102, &210, 212, 215, &220, &230, 238, 245, 265**

**Dance 101, 102, 103, 110, 204**

**Drama &101, 111, 112, 113, 151, 152, 153**

**English &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257**

**Film 120, 121, 141**

**French &121, &122, &123, &221**

**German &121, &122, &123**

**Humanities 100, 110, 133, 142, 146, 160, 186, 190, 191, 224, 272**

**Japanese &121, &122, &123**

**Journalism 101, 150, 151, 152, 254**

**Music 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**

**Philosophy &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200, 206, 210, 220, 236, 238, 240, 243**

**Photography 101, 102, 103, 111**

**Spanish 110, &121, &122, &123, &221, &222, &223**

#### B. Social Science

*A course in Economics is recommended. A minimum of 5 credits from the following:*

**American Minority and Ethnic Studies 100, 150, 211**

**Anthropology &100, &204, &205, &206, &207, &210, 211, &216, &234, &235, &236, 273**

**Business Management &101, &201**

**Criminal Justice &101, &105, &110, &240**

**Economics 100, 101, &201, &202**

**Geography &100, 120, 123, 190, &200, 201, 205**

**History 101, 102, 103, 120, 122, 135, &136, &137, &214, &215, 220, 224, 226, 228, 230, 231, 232, 233, 235, 237, 240, 245, 250**

**Political Science &101, &200, &202, &203, &204, 207, 209**

**Psychology &100, &180, &200, 201, 209, &220, 225, 240**

**Social Science 160, 211**

**Sociology &101, &201, 202, 205, 215, 220, 230, 240, 245, 260**

### 2. SPECIFIC REQUIREMENTS (62 credits)

*It is strongly suggested that students beginning their science sequence complete it at the originating college.*

#### A. Physics &221, &222 and &223 (15 credits)

#### B. Chemistry &161 (6 credits)

#### C. Select 20 credits from the following:

**D. Engineering 100, 106, &214, &215, &225**

**E. Select 21 credits from the following after consultation with a Science/Engineering advisor:**

**Chemistry &162**

**Computer Science &131, 132, &141, 145**

**English 128**

**Engineering &104, &114, 140, &204, &224, 250**

### 3. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policies and each student is responsible for knowing the transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.



## Associate in Computer or Electrical Pre-Engineering

**Associate in Science Transfer Degree/Major Related Program – Option 2 (AST-2/MRP) - Minimum of 96 Credits**

The Associate in Computer or Electrical Pre-Engineering AST-Option 2/MRP degree encompasses some general education courses required of first- and second-year students and is intended to prepare students planning to transfer to a university in the science-related fields. It will give students the broad background needed before beginning more specialized, upper-division courses. The curriculum is not intended to fulfill General Education/University (GER/GUR) requirements, but to prepare prospective transfer science students to enter the state universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 96-quarter credits in courses numbered 100 or above (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative grade point average of 2.0, and earn a minimum of 24 credits, including the last quarter in residence, at Green River Community College. Students should include some 200-level classes in their course of study.

Students are responsible for knowing transfer requirements and policies, as well as specific course choices and GPA requirements, and are urged to consult the catalog of the institution for which they plan to transfer.

### 1. BASIC SKILLS (30 credits)

#### A. Communication Skills (5 credits)

*Courses in this area support the written communication learning outcome.*

**English &101**

#### B. Quantitative Skills/Symbolic Reasoning: (25 credits)

*Courses in this area support the quantitative and symbolic reasoning learning outcome.*

**Mathematics &151 &152 &153, 238 and &254**

### 2. HUMANITIES/FINE ARTS/ENGLISH and SOCIAL SCIENCE (15 credits)

*Minimum of 5 credits each from Humanities/Fine Arts/English and Social Science area plus 5 additional credits in either area (for a total of 15 credits). Three separate areas.*

#### A. Humanities/Fine Arts/English

*A minimum of 5 credits from the following: No more than 5 credits in foreign language at the 100 level. No more than 5 credits allowed in any one discipline. No more than 5 credits in performance/skills courses (all courses in bold type) can be applied towards Humanities/ Fine Arts/English distribution.*

**Art &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 133, 135,**

212, 213, 214, 219, 251, 252, 253, 255, 256, 257

**Chinese 111, &121, &122, &123**  
**Communication Studies &102, &210, 212, 215, &220, &230, 238, 245, 265**

**Dance 101, 102, 103, 110, 204**

**Drama &101, 111, 112, 113, 151, 152, 153**

**English &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257**

**Film 120, 121, 141**

**French &121, &122, &123, &221**

**German &121, &122, &123**  
**Humanities 100, 110, 133, 142, 146, 160, 186, 190, 191, 224, 272**

**Japanese &121, &122, &123**

**Journalism 101, 150, 151, 152, 254**

**Music 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**

**Philosophy &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200, 206, 210, 220, 236, 238, 240, 243**

**Photography 101, 102, 103, 111**

**Spanish 110, &121, &122, &123, &221, &222, &223**

#### B. Social Science

*A course in Economics is recommended. A minimum 5 credits from the following:*

**American Minority and Ethnic Studies 100, 150, 211**

**Anthropology &100, &204, &205, &206, &207, &210, 211, &216, &234, &235, &236, 273**  
**Business Management &101, &201**

**Criminal Justice &101, &105, &110, &240**

**Economics 100, 101, &201, &202**

**Geography &100, 120, 123, 190, &200, 201, 205**

**History 101, 102, 103, 120, 122, 135, &136, &137, &214, &215, 220, 224, 226, 228, 230, 231, 232, 233, 235, 237, 240, 245, 250**

**Political Science &101, &200, &202, &203, &204, 207, 209**

**Psychology &100, &180, &200, 201, 209, &220, 225, 240**

**Social Science 160, 211**

**Sociology &101, &201, 202, 205, 215, 220, 230, 240, 245, 260**

### 3. SPECIFIC REQUIREMENTS (51 credits)

*It is strongly suggested that students beginning their science*

*sequence complete it at the originating college.*

**A. Physics &221, &222 and &223 (15 credits)**

**B. Chemistry &161 (6 credits)**

**C. Select 10 credits**

**Computer Science &131 and 132 or &141 and 145**

**D. Select 10 credits**

**Engineering 100, 106, &204, 250**

**E. \*Select 10 credits**

**Computer Science &131, 132, &141, 145**

**Engineering &104, &214, &224, 250**

**English 128**

**Mathematics 240**

*\* A course in digital logic will be added to this list in the future.*

### 4. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policies and each student is responsible for knowing the transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.

## Associate in Bioengineering or Chemical Pre-Engineering

**Associate in Science Transfer Degree/Major Related Program – Option 2 (AST-2/MRP) - Minimum of 101-102 Credits**

The Associate in Bioengineering or Chemical Pre-Engineering AST-Option 2/MRP degree encompasses some general education courses required of first- and second-year students and is intended to prepare students planning to transfer to a university in the science-related fields. It will give students the broad background needed before beginning more specialized, upper-division courses. The curriculum is not intended to fulfill General Education/University (GER/GUR) requirements, but to prepare prospective transfer science students to enter the state universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 101-102 quarter credits in courses numbered 100 or above (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative grade point average of 2.0, and earn a minimum of 24 credits, including the last quarter in residence, at Green River Community College. Students should include some 200-level classes in their course of study.

Students are responsible for knowing transfer requirements and policies, as well as specific course choices and GPA requirements, and are urged to consult the catalog of the institution for which they plan to transfer.

### 1. BASIC SKILLS (30 credits)

#### A. Communication Skills (5 credits)

*Courses in this area support the written communication learning outcome.*

**English &101**

#### B. Quantitative Skills/Symbolic Reasoning (25 credits)

*Courses in this area support the quantitative and symbolic reasoning learning outcome.*

**Mathematics &151 &152 &153, 238 and &254**

### 2. HUMANITIES/FINE ARTS/ENGLISH and SOCIAL SCIENCE (15 credits)

*Minimum 5 credits each from humanities/fine arts/English and social science area plus 5 additional credits in either area (for a total of 15 credits). Three separate areas.*

#### A. Humanities/Fine Arts/English

*A minimum of 5 credits from the following. No more than 5 credits in any one discipline. No more than 5 credits in performance/skills courses (all courses in bold type) can be applied towards Humanities/Fine Arts/ English distribution. No more than 5 credits in foreign language at the 100 level.*

**Art &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 133, 135,**

212, 213, 214, 219, 251, 252, 253, 255, 256, 257

**Chinese 111, &121, &122, &123**

**Communication Studies &102, &210, 212, 215, &220, &230, 238, 245, 265**

**Dance 101, 102, 103, 110, 204**

**Drama &101, 111, 112, 113, 151, 152, 153**

**English &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257**

**Film 120, 121, 141**

**French &121, &122, &123, &221**

**German &121, &122, &123**

**Humanities 100, 110, 133, 142, 146, 160, 186, 190, 191, 224, 272**

**Japanese &121, &122, &123**

**Journalism 101, 150, 151, 152, 254**

**Music 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**

**Philosophy &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200, 206, 210, 220, 236, 238, 240, 243**

**Photography 101, 102, 103,**

111

**Spanish 110, &121, &122, &123, &221, &222, &223**

#### B. Social Science

*A course in Economics is recommended. A minimum of 5 credits from the following:*

**American Minority and Ethnic Studies 100, 150, 211**

**Anthropology &100, &204, &205, &206, &207, &210, 211, &216, &234, &235, &236, 273**

**Business Management &101, &201**

**Criminal Justice &101, &105, &110, &240**

**Economics 100, 101, &201, &202**

**Geography &100, 120, 123,**

190, &200, 201, 205

**History 101, 102, 103, 120, 122, 135, &136, &137, &214, &215, 220, 224, 226, 228, 230, 231, 232, 233, 235, 237, 240, 245, 250**

**Political Science &101, &200, &202, &203, &204, 207, 209**

**Psychology &100, &180, &200, 201, 209, &220, 225, 240**

**Social Science 160, 211**

**Sociology &101, &201, 202, 205, 215, 220, 230, 240, 245, 260**

### 3. SPECIFIC REQUIREMENTS (56-57 credits)

*It is strongly suggested that students beginning their science sequence complete it at the originating college.*

**A. Physics &221, &222 and &223 (15 credits)**

**B. Chemistry &161, &162, &163 and &261 (24 credits)**

**C. Engineering 100 (2 credits)**

**D. Biology &100 or Chemistry &262 (5-6 credits)**

**E. Select at least 15 credits from the following list after consultation with an engineering advisor.**

**Biology &100**

**Chemistry &263\***

**Computer Science &131, 132, &141, or 145**

**Engineering 100, &204, &224, 250**

**English 128**

**Mathematics 240**

*\* An online course in chemical process, principles, and calculations will be added to this degree in the future.*

### 4. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will usually be accepted by other institutions offering the same (or similar) courses.

However, each institution has its own transfer policies and each student is responsible for knowing the transfer and admission requirements of the receiving institution. Students are urged to consult with their advisor and a representative from the college they plan to attend after Green River.

## Art – Studio Academic Certificate 43 Credits

The certificate program provides students with a core group of classes that will aid in the creation of an art portfolio. Each certificate is designed to create a proper progression of courses beginning with a strong foundation in the fundamentals of art and design.

**NOTE:** *This certificate does not qualify for federal financial aid or VA funding, unless the certificate or courses is applied towards and Associate in Arts or Associate Development degree.*

**Contact:** Cindy Small, ext. 4203  
[Csmall@grenriver.edu](mailto:Csmall@grenriver.edu)

Dept./No.	Course Title	Credits
Art 105	Beginning Drawing	5
Art 106	Intermediate Drawing	5
Art 107	Advanced Drawing	5
Art 109	Beginning Design	5
Art 110	Intermediate Design and Color	5
Art 111	Painting 1	5
Art 119	3-Dimensional Design	5
*Art 180	The Artist's Portfolio	3
Art 255	Advanced Painting 1	5

**To enhance the student's portfolio, the following are recommended:**

Art 130	Watercolor Painting	(3)
Art 133	Portrait Drawing	(3)
Art 135	Introduction to Screen Printing	(3)
Art 219	Advanced 3-Dimensional Design	(5)
Art 256	Advanced Painting 2	(5)
Art 257	Advanced Painting 3	(5)

**All art history classes are recommended:**

Art 212, 213, 214	History of Art 1-3	5 ea
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*\*Courses will transfer as elective only. Consult with your transfer institution.*

## Diversity Studies Academic Certificate 20 Credits

Diversity in the curriculum refers to the study of one or more groups that have been historically marginalized on the basis of culture, race, ethnicity, gender, sexual orientation, class, disability, religion, age, immigration, and/or geopolitical power. Diversity-designated courses facilitate academic inquiry, analysis and understanding of past and current differences, conflicts, and relations of power, thereby moving the discourse of diversity beyond mere tolerance, celebration, or appreciation.

The Diversity Studies certificate supports students in critical self-reflection, intercultural literacy, and cross-cultural communication to aid them in critically understanding their own and others' experiences. By taking courses in a variety of disciplines to fulfill the certificate, students will have been introduced to multiple academic frameworks and approaches that will provide them with competencies and analytical tools fundamental to articulating and navigating the changing demographics and power relations of a diverse world and workplace.

- Students must take at least four courses totaling 20 credits, including at least one core courses (see list below) and one course from each of the three sponsoring divisions: Social Science, Humanities, and English.
- Students must have an accumulative G.P.A. of 2.0 for the classes chosen for the certificate; only one class can have a Pass/No Credit designation.
- Students seeking the Gender Studies certificate or the Hispanic Studies certificate may use no more than two courses from that certificate to fulfill the Diversity certificate.

**Contact:** Michael Moreno, ext. 4244  
[Mmoreno@greenriver.edu](mailto:Mmoreno@greenriver.edu)

Dept./No.	Course Title	Credits
<b>Required Course:</b>		
<i>Select at least one of the following courses (5 credits)</i>		5
Ames 100	Introduction to Ethnic and Minority Studies	(5)
Engl 247	American Ethnic Literature	(5)
Phil 238	Introduction to the Philosophy of Human Rights	(5)
<i>Select from the following courses to total 20 credits:</i>		
<b>Additional Courses:</b>		
Ames 150	Race and Ethnicity in the Pacific	(5)
Anth& 206	Cultural Anthropology	(5)
Anth& 210	Indians of North America	(5)
CJ 220	Multicultural Diversity in Criminal Justice	(5)
Engl 160	Literature By and About Women	(5)
Engl 161	Cultures of Desire	(5)
Engl 163	The Poetics of Rap and Hip Hop	(5)
Engl 165	Introduction to World Myth	(5)
Engl 168	Introduction to Irish Literature	(5)
Engl 248	African American Literature	(5)
Engl 249	U.S. Latino Literature	(5)
Engl& 256	World Literature III: 19 <sup>th</sup> -21 <sup>st</sup> Century	(5)
Engl 257	Non-Western World Literature	(5)
Film 121	Contemporary American Movies	(5)
Geog& 200	Human Geography	(5)
Hist 103	The Modern World	(5)
Hist& 215	Women in United States History	(5)
Hist 224	African-American History	(5)
Hist 226	Asian-American History	(5)
Hist 228	Latinos in the United States	(5)
Hist 233	History of Latin America	(5)
Human 190	Latin American Film	(5)
Human 224	Women and World Religions	(5)
Phil 206	Gender and Philosophy	(5)
Pols& 204	Comparative Government	(5)
Soc 205	Sociology of Disability	(5)
Soc 220	Sex and Gender in Society	(5)
Span 221	Spanish IV	(5)
Span 222	Spanish V	(5)
Span 223	Spanish VI	(5)

## Natural Resources

### Associate in Pre-Professional Degree

95 Credits

The pre-professional degree prepares students to transfer to a college or university program as juniors in several Natural Resources areas. By developing academic skills in mathematics, science, English, humanities, and natural resource courses, the student can transfer directly into a professional program such as natural resources management, forest engineering, or wildlife biology. Selected natural resource courses will transfer to these four-year programs.

While this program of study is designed to transfer to most four-year professional programs in Natural Resources or closely related fields, you should consult the catalog of the school to which you plan to transfer. The university catalog requirements will provide the guidance for substitutions and be approved by the Natural Resources instructor/advisor. Some professional schools require a foreign language.

**Contacts:** Dick Hopkins, ext. 4509      Rob Sjogren, ext. 4582  
                   Dhopkins@greenriver.edu      rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
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*A minimum of 95 credits must be earned from the following categories:*

<b>Natural Resources</b> —core classes		44
GIS 192	GIS for Natural Resources	(5)
Natrs 100	Introduction to Natural Resources	(5)
Natrs 172	Computer Applications Overview	(4)
Natrs 180	Natural Resources Measurements	(7)
Natrs 181	Forest Navigation and Mapping	(8)
Natrs 182	Aerial Photo Interpretation	(5)
Natrs 183	Tree and Shrub Identification	(5)
Natrs 210	Introduction to Soils	(5)
<b>Mathematics</b> —minimum of 10 credits from the following:		10
Math& 141	Precalculus 1	(5)
Math& 142	Precalculus 2	(5)
Math& 151	Calculus I	(5)

Math& 152	Calculus II	(5)
Math 256	Statistics for Business and Social Science	(5)
<b>English</b> —required		10
Engl& 101	English Composition I	(5)
Engl 128	Research Writing: Science/Engineering/Business	(5)
<b>Science</b> —minimum of 10 credits from the following:		10
Biol& 211	Majors Cellular	(6)
Biol& 212	Majors Animal	(6)
Biol& 213	Majors Plant	(6)
Chem& 121	Introduction to Chemistry	(5)
Chem& 131	Introduction to Organic Chemistry and Biochemistry	(5)
Geol& 101	Introduction to Physical Geology	(5)
Phys& 110	Physics Non-Science Major with Lab	(5)
<b>Humanities</b> —required:		5
Cmst& 220	Public Speaking	(5)
<b>Social Science</b> —minimum of 10 credits from the following:		10
Econ& 201	Microeconomics	(5)
Econ& 202	Macroeconomics	(5)
Geog 120	Introduction to Geography	(5)
Soc& 101	Introduction to Sociology	(5)
<b>Wellness:</b>		
P E 113	Group Dynamic Activities (taken concurrently with Natrs 181)	1
<b>Electives</b> —minimum of 5 credits from the following:		5
Any of the above listed courses		
Any Natural Resources courses		
Any General Engineering courses		
Any GRCC course that is required by the university of 100-level or higher.		

# WASHINGTON 45:

## List of One Year Transfer Course

Adopted: May 2012

Implemented: Fall 2012

*The list of courses in Washington 45 does not replace the Direct Transfer Agreement, Associate of Science Option 1 and Option 2 or any Major Related Program agreement, nor will it guarantee admission to a four-year college.*

A student who completes courses selected from within the general education categories listed below at a public community, technical, four-year college or university in Washington State will be able to transfer and apply a maximum of 45 credits toward general education requirement(s) at any other public and most private higher education institutions in the state.<sup>1</sup>

For transfer purposes, a student must have a minimum grade of C or better (2.0 or above) in each course completed from this list.

Students who transfer Washington 45 courses must still meet a receiving institution's admission requirements and eventually satisfy all their general education requirements and their degree requirements in major, minor and professional programs.

### "First Year Transfer List" of general education courses

- Communications (5 credits) – ENGL& 101, ENGL& 102
- Quantitative and Symbolic Reasoning (5 credits) – MATH& 107, MATH& 148 or MATH& 151
- Humanities (10 credits in two different subject areas or disciplines<sup>2</sup>) – PHIL& 101, MUSC& 105, DRMA& 101, ENGL& 111, or HUM& 101. *(For colleges that use History as Humanities – HIST& 116, HIST& 117, HIST& 118, HIST& 146, HIST& 147, HIST& 148)*
- Social Science (10 credits in two different subject areas or disciplines) – PSYC& 100, SOC& 101, POLS& 101, POLS& 202  
*(For colleges that use History as Social Science – HIST& 116, HIST& 117, HIST& 118, HIST& 146, HIST& 147, HIST& 148)*
- Natural Science (10 credits in two different subject areas or disciplines) – BIOL& 100, BIOL& 160 with lab, ASTR& 100, ASTR& 101 with lab, CHEM& 105, CHEM& 110 with lab, CHEM& 121 with lab, CHEM& 161, CHEM& 162, ENV&S 101, PHYS& 121, GEOL& 101 with lab
- Additional 5 credits in a different discipline can be taken from any category listed above.

<sup>1</sup> Many private non-profit college and universities have distinct general education requirements. Students should check with institution(s) they plan to attend regarding application of transfer credits that will meet general education requirements.

<sup>2</sup> Disciplines are sometimes called subject or subject matter areas and designated by a prefix (i.e., PHIL for Philosophy and POLS for Political Science)

**Note:** Although these courses are listed under categories, the actual course may satisfy a different general education category at a receiving institution.

## DEGREES AND CERTIFICATES PROGRAMS

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### PROFESSIONAL/TECHNICAL DEGREES

The following lists the **new** professional/technical degrees/certificates:

- Aerospace and Advanced Manufacturing-Precision Machining 1 (13 credit-certificate)
- Aerospace and Advanced Manufacturing-Precision Machining 2 (13 credit-certificate)
- Aerospace and Advanced Manufacturing-Machine Maintenance 1 (13 credit-certificate)
- Aerospace and Advanced Manufacturing-Machine Maintenance 2 (13 credit-certificate)
- Aerospace and Advanced Manufacturing-Quality Assurance 1 (14 credit-certificate)
- Aerospace and Advanced Manufacturing-Quality Assurance 2 (14 credit-certificate)

The following lists the **changes** to professional/technical degrees and certificates:

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Accounting (AAA)</li> <li>• Advanced Aviation Knowledge (Certificate)</li> <li>• Air Traffic Control (AAS)</li> <li>• Aircraft Dispatcher (Certificate)</li> <li>• Airline Dispatch (AAS)</li> <li>• Airline Dispatcher Completion (Certificate)</li> <li>• Auto Body Technology (AAS)</li> <li>• Auto Body Technology, Collision Repair (Certificate)</li> <li>• Basic Airport Management (Certificate)</li> <li>• Business Applications Specialist (AAA)</li> <li>• Business Applications Specialist (Certificate)</li> <li>• Business for Small Business Applications (Certificate)</li> <li>• Early Childhood Education and Diversity Study (AAS-T)</li> <li>• Information Technology – Computer Support Specialist (AAS-T)</li> <li>• Information Technology--Networking (AAS-T)</li> <li>• Information Technology-- Systems (AAS-T)</li> <li>• International Flight Planning (Certificate)</li> </ul> | <ul style="list-style-type: none"> <li>• Helicopter Pilot (AAS)</li> <li>• Intermediate Aviation Knowledge (Certificate)</li> <li>• Design Technology – Design Drafting Technology (AAS)</li> <li>• Design Technology – Construction Design Technology (AAS)</li> <li>• Design Technology – Mechanical Design Technology (AAS)</li> <li>• Geographic Information Systems (AAS)</li> <li>• Geographic Information Systems (Certificate)</li> <li>• Mechanical Design Technology (AAS-T)</li> <li>• Natural Resources – Forestry (AAS)</li> <li>• Natural Resources – Geographic Information System (AAS)</li> <li>• Natural Resources – Park Management (AAS)</li> <li>• Natural Resources – Water Quality (AAS)</li> <li>• Natural Resources – Wildland Fire (AAS)</li> <li>• Occupational Therapy Assistant (AAA)</li> <li>• Practical Nursing Certificate (Certificate)</li> <li>• Professional Pilot (AAS)</li> </ul> |
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The following lists the **reinstatements** to professional/technical degrees and certificates.

- Water Supply Technology (AAS)
- Water Distribution Technology (Certificate)
- Wastewater Technology (AAS)
- Wastewater Collection Technology (Certificate)

The following lists **cancellations** to the professional/technical degrees and certificates..

- Information Technology – Networking Infrastructure (AAS-T)
- Information Technology – Networking Infrastructure (Certificate)
- Information Technology – Security (AAS-T)
- Advanced Air Traffic Control (Certificate)

## NEW PROFESSIONAL/TECHNICAL CERTIFICATES

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### AEROSPACE AND ADVANCED MANUFACTURING (AAM)

Contact: Scott Schreiber, ext. 4421  
[Sschreiber@greenriver.edu](mailto:Sschreiber@greenriver.edu)

#### Precision Machining 1

Certificate of Proficiency  
 13 Credits

Dept./No.	Course Title	Credits
AAM 101	Principles of Precision Machining 1	13

#### Precision Machining 2

Certificate of Proficiency  
 13 Credits

Dept./No.	Course Title	Credits
AAM 102	Principles of Precision Machining 2	13

#### Machine Maintenance 1

Certificate of Proficiency  
 13 Credits

Dept./No.	Course Title	Credits
AAM 103	Machine Maintenance 1	13

#### Machine Maintenance 2

Certificate of Proficiency  
 13 Credits

Dept./No.	Course Title	Credits
AAM 103	Machine Maintenance 2	13

#### Quality Assurance 1

Certificate of Proficiency  
 14 Credits

Dept./No.	Course Title	Credits
AAM 105	Quality Assurance 1	7
AAM 107	Inspection 1	7

#### Quality Assurance 2

Certificate of Proficiency  
 14 Credits

Dept./No.	Course Title	Credits
AAM 106	Quality Assurance 2	7
AAM 108	Inspection 2	7

# REVISED PROFESSIONAL/TECHNICAL DEGREES AND CERTIFICATES

## ACCOUNTING (ACCT)

Contact: Paul Mueller, ext. 2635  
[Pmueller@greenriver.edu](mailto:Pmueller@greenriver.edu)

### Accounting

Associate in Applied Arts Degree  
 90 Credits

The graduate of this two-year program will be prepared for employment in accounting and future supervisory positions in accounting and business. Students in this program must complete all required Accounting classes with a grade of 2.0 or higher. Students must earn a cumulative GPA of 2.0 or higher.

Dept./No.	Course Title	Credits
<b>Core Requirements</b>		
Acct 110	Practical Financial Accounting 1	5
Acct 111	Practical Financial Accounting 2	5
Acct 112	QuickBooks for Accounting	5
Acct 113	Practical Accounting	5
Acct 118	Individual Taxation	5
Acct 121	Payroll Accounting	5
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
Bus& 201 or Pols& 200	Business Law and the Regulation of Business or Introduction to Law and Commerce	5
Bus E 100	Fundamentals of Computers	5
†Bus E 101	Beginning Typing/Keyboarding	5
Bus E 110	Business Math Applications	5
Bus E 162	Introduction to Excel	5
Bus E 163	Advanced Excel	5
<b>Related Instruction Requirements</b>		
#B A 145	Business Computation	5
#Bus 166 or Cmst 100 or Cmst& 210 or Cmst& 220	Human Relations and Work Readiness or Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5
#Bus E 130 or Engl 109 or Engl& 101 or Engl 126 or Engl 127 or Engl 128	Business Correspondence or Writing for Trades and Professional/Technical Degrees or English Composition 1 or Writing: Humanities or Writing: Social Sciences or Research Writing: Science/Engineering/ Business	5
#Cmst 100 or Cmst& 210 or Cmst& 220 or	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or	

Cmst& 230 Reading	Small Group Communication Eligible for Read 104, Reading Mastery	5 0-5
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**Suggested Electives:**

Select from the following courses to total 90 credits:

Any Acct course	(5)
Any B A course	(5)
Any Bus E Course	(5)
Any Bus Course	(5)
Any Math Course	(5)
Coop 171	(1)
Econ 100	(5)
Econ& 201	(5)
Econ& 202	(5)
Work Experience Seminar	(1)
Economic Principles and Applications	(5)
Microeconomics	(5)
Macroeconomics	(5)

#Satisfies related instruction requirements.

\*Acct& 201, Principles of Accounting I, may be substituted for Acct 110 and Acct 111.

\*\*Acct& 202, Principles of Accounting II, may be substituted for Acct 113.

†Bus E 101; Beginning Typing/Keyboarding may be waived by passing a 3-minute typing test at 30 wpm with 5 or less errors using the proper touch typing techniques.

**Note:** Students can only apply Cmst 100, &210, or Cmst& 220 towards the human relations area if NOT already use in the Communications area of the related instruction requirements.

## AVIATION (AVIA)

Contact: George Comollo, ext. 4336 [Gcomollo@greenriver.edu](mailto:Gcomollo@greenriver.edu) Curt Scott, ext. 4335 [cscott@greenriver.edu](mailto:cscott@greenriver.edu)  
 Chris Ward, ext. 4337 [Cward@greenriver.edu](mailto:Cward@greenriver.edu)

### Air Transportation

Associate in Applied Science Degree  
 90 Credits

Aviation, business and human relations courses form the core of this program, which is designed to help prepare a student for entry into the airline industry. It is intended for students interested in ramp service, customer service, reservations, flight attendant service, aircraft servicing, and airport maintenance and management careers.

Students may enter this program at the beginning of any quarter.

Dept./No.	Course Title	Credits
Acct 110 or Acct& 201	Practical Financial Accounting 1 or Principles of Accounting I	5
Avia 101	Aviation Fundamentals	5
Avia 103	Aviation History and Careers	5
Avia 110	Airline Operation	5



Avia 111	Private Pilot Ground School	5
Avia 112	Aircraft Systems	2
Avia 123	Aviation Weather	5
Avia 190	FAA Next Generation Technologies	5
Avia 201	Air Traffic Control 1	5
Avia 214	Airport Management and Operations	5
Avia 217	Aviation Security	5
#Bus 166 or	Human Relations and Work Readiness or	
Cmst& 210 or	Interpersonal Communication or	
Cmst 238	Intercultural Communication	5
Bus 121	Marketing Fundamentals	5
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220 or	Public Speaking or	
Cmst 230	Small Group Communication	5
Econ 100 or	Economic Principles and Applications or	
Econ& 201 or	Microeconomics or	
Econ& 202	Macroeconomics	5
#Engl 100 or	Introductory Composition or	
Engl& 101 or	English Composition I or	
Engl 109 or	Writing for Trades/Professional Technical Degrees or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/ Business	5
#Math	Any Math course 100 or higher	5

**Suggested Electives:**

Select from the following courses to total 90 credits.

Any Aviation course	(2-5)
Any Computer course 100 or higher	(3-5)
Any GIS course	(5)
Any Math course 100 or higher	(5)
Any Science course 100 or higher with a lab	(5)
Avia 177-179 and	Aviation Work Experience 1-3 and (1-13)
Coop 171	Work Experience Seminar (1)
Bus& 201	Business Law (5)
Bus 159	Professional Selling (5)
Bus 181	Introduction to International Business (5)
Natrs 117	Aerial Photography Uses and Ground Based Mapping (5)

#Satisfies related instruction requirements.

**Basic Airport Management**

**Certificate of Proficiency**

15 Credits

<u>Dept./No.</u>	<u>Course Title</u>	<u>Credits</u>
Avia 103	Aviation History and Careers	5
Avia 110	Airline Operation	5
Avia 214	Airport Management and Operations	5

**Air Traffic Control**

**Associate in Applied Science Degree**

103 Credits

Green River Community College is a Federal Aviation Administration-Air Traffic College Training Initiative (FAA AT-CTI) school. Students seeking employment with the FAA as Air Traffic Controllers and using the CTI track for entry into the FAA must have a Faculty Recommendation for fitness to work for the FAA. To earn a positive recommendation from the Faculty, GRCC AT-CTI students must meet or exceed the standards indicated below. Completing the ATC degree and meeting the standards listed below DOES NOT assure the FAA will hire the GRCC AT-CTI Graduate. FAA Air Traffic Controller hiring is extremely competitive and the FAA hires according to FAA needs. GRCC has no control or influence over the FAA hiring process.

**Academic Performance**

Students must successfully complete academic work with minimum grades of:

1. Non-Aviation courses - GRCC grade of 2.0 (75%)
2. Aviation non-ATC courses - GRCC grade of 2.5 (80%)
3. ATC courses, excluding Avia 203 - GRCC grade of 3.0 (85%)
4. Avia 203 ATC capstone course, GRCC grade of 3.2 (87%) AND, complete the following Avia 203 tests and quizzes with at least these minimum scores:
  - a. Avia 203 Area Knowledge Test (Map Test) - 90%
  - b. Avia 203 Phraseology Tests and Quizzes - 80% average
  - c. Avia 203 Strip-Marking Tests and Quizzes - 80% average
  - d. Avia 203 AT-Basics Final Exam series (Four Tests)
    - Any individual test - minimum score - 80%
    - Overall average score of 90% or higher for all four tests.
5. The ATC degree program with an overall minimum GPA GRCC grade of 3.0 (85%).

**Conduct and Deportment**

Because judgment, personal integrity and team-work are so critical for ATC work, the faculty recommendation also includes an evaluation of student judgment, personal integrity and ability to be an effective team member. Note that the conduct and deportment evaluation covers student activity 24/7-365 days a year (continuously, on and off campus, in and out of class, and for the entire time the student attends GRCC).

**To earn a positive recommendation GRCC AT-CTI students must demonstrate:**

- Excellent judgment, integrity and personal ethics, and positive attitude at all times and in all situations.
- Strong ability to work effectively in teams- to respect ideas of other teammates and to communicate with others respectfully and courteously, to actively engage in team work with a positive attitude and a willingness to put the team's needs and goals above personal needs and goals
- Superior self-responsibility, complete honesty, and outstanding personal integrity in such manner that the student engenders trust and confidence with all who know and work with the student.

<u>Dept./No.</u>	<u>Course Title</u>	<u>Credits</u>
Avia 101	Aviation Fundamentals	5
Avia 103	Aviation History and Careers	5
Avia 110	Airline Operation	5

Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 128	Basic Weather Observation	3
Avia 190	FAA Next Generation Technologies	5
Avia 201	Air Traffic Control 1	5
Avia 202	Air Traffic Control 2	5
Avia 203	Air Traffic Control 3-Enroute ATC	5
Avia 208	Airline Dispatch	5
Avia 209	International Flight Planning and ETOPS	5
Avia 211	Aerodynamics for Pilots	5
Avia 214	Airport Management and Operations	5
Avia 216 <b>and</b> Avia 226 <b>or</b>	Basic Instrument Pilot Ground School <b>and</b> Advanced Instrument Pilot Ground School <b>or</b>	
Avia 225	Instrument Procedures	10
#Bus 166 <b>or</b> Cmst& 210 <b>or</b> Cmst 238	Human Relations and Work Readiness <b>or</b> Interpersonal Communication <b>or</b> Intercultural Communication	5
#Cmst 100 <b>or</b> Cmst& 220 <b>or</b> Cmst& 230	Fundamentals of Oral Communication <b>or</b> Public Speaking <b>or</b> Small Group Communication	5
#Engl 100 <b>or</b> Engl& 101 <b>or</b> Engl 109 <b>or</b>  Engl 126 <b>or</b> Engl 127 <b>or</b> Engl 128	Introductory Composition <b>or</b> English Composition I <b>or</b> Writing for Trades/Professional Technical Degrees <b>or</b> Writing: Humanities <b>or</b> Writing: Social Science <b>or</b> Research Writing: Science/Engineering/ Business	5
#Math 115T <b>or</b>	Technical Algebra/Trigonometry 1 <b>or</b> Any Math course 100 or higher	5
Natural Science	Any Science course 100 or higher with a lab	5

**Suggested Electives:**  
*Select from the following courses to total 103 credits:*  
 Any Aviation course (2-5)  
 Any Computer course 100 or higher (3)  
 Any GIS course (5)  
 Any Math course 100 or higher (5)  
 Any Science course 100 or higher with a lab (5)  
 Avia 177-179 **and** Avia Work Experience 1-3 **and** (1-13)  
 Coop 171 Work Experience Seminar (1)  
 Natrs 117 Aerial Photography Uses and Ground  
 Based Mapping (2)

#Satisfies related instruction requirements.

**Aircraft Dispatcher**  
**Certificate of Proficiency**  
 40 Credits

This certificate program prepares students with no background in Aviation for the FAA Aircraft Dispatcher practical examination. This examination must be taken within 90 days of graduation.

**Entrance Requirements:**

1. Math scores of 86-100 on the numerical skill portion of the COMPASS or qualifies for Math 072.

2. College-level reading competency as measured by COMPASS or qualifies for Read 104.
3. Recommended keyboarding/typing skill of 30 wpm. Keyboarding/typing skills may be demonstrated by passing a 3-minute typing test at 30 wpm with 5 or less errors using the proper touch typing technique administered by the Business Education department.

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
<b>First Quarter</b>		
Avia 110	Airline Operation	5
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
<b>Second Quarter</b>		
Avia 201	Air Traffic Control 1	5
Avia 225	Instrument Procedures	5
<b>Third Quarter</b>		
Avia 190	FAA Next Generation Technologies	5
Avia 208	Airline Dispatch	5
Avia 209	International Flight Planning and ETOPS	5

**Airline Dispatch**  
**Associate in Applied Science Degree**  
 103 Credits

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Avia 101	Aviation Fundamentals	5
Avia 103	Aviation History and Careers	5
Avia 110	Airline Operation	5
Avia 112	Aircraft Systems	2
*Avia 123	Aviation Weather	5
Avia 128	Basic Weather Observation	3
Avia 190	FAA Next Generation Technologies	5
Avia 201	Air Traffic Control 1	5
Avia 202	Air Traffic Control 2	5
Avia 208	Airline Dispatch	5
Avia 209	International Flight Planning and ETOPS	5
Avia 211	Aerodynamics for Pilots	5
Avia 214	Airport Management and Operations	5
Avia 216 <b>and</b> Avia 226 <b>or</b>	Basic Instrument Pilot Ground School <b>and</b> Advanced Instrument Pilot Ground School <b>or</b>	
Avia 225	Instrument Procedures	10
#Bus 166 <b>or</b> Cmst& 210 <b>or</b> Cmst 238	Human Relations and Work Readiness <b>or</b> Interpersonal Communication <b>or</b> Intercultural Communication	5
#Cmst 100 <b>or</b> Cmst& 220 <b>or</b> Cmst& 230	Fundamentals of Oral Communication <b>or</b> Public Speaking <b>or</b> Small Group Communication	5
#Engl 100 <b>or</b> Engl& 101 <b>or</b> Engl 109 <b>or</b>  Engl 126 <b>or</b> Engl 127 <b>or</b> Engl 128	Introductory Composition <b>or</b> English Composition I <b>or</b> Writing for Trades/Professional Technical Degrees <b>or</b> Writing: Humanities <b>or</b> Writing: Social Science <b>or</b> Research Writing: Science/Engineering/ Business	5
#Math 115T <b>or</b>	Technical Algebra/Trigonometry 1 <b>or</b>	

	Any Math course 100 or higher	5
Natural Science	Any Science course 100 or higher with a lab	5

**Suggested Electives:**

Select from the following courses to total 103 credits:

Any Aviation course	(2-5)
Any Business Management course	(3-5)
Any Computer course 100 or higher	(3)
Any Engineering course	(2-10)
Any GIS course	(5)
Any Math course 100 or higher	(5)
Any Science course 100 or higher with a lab	(5)
Natrs 117	Aerial Photography Uses and Ground Mapping (2)

# Satisfies related instruction requirements.

**Airline Dispatcher Completion**

Certificate of Proficiency  
20-25 Credits

Dept./No.	Course Title	Credits
<b>First Quarter</b>		
Avia 111	Private Pilot Ground School (if necessary)	0-5
Avia 123	Aviation Weather	5
Avia 225	Instrument Flight Operations and Procedures	5
<b>Second Quarter</b>		
Avia 201	Air Traffic Control 1	5
Avia 208	Airline Dispatch	5

**International Flight Planning**

Certificate of Proficiency  
25-30 Credits

Dept./No.	Course Title	Credits
<b>First Quarter</b>		
Avia 111	Private Pilot Ground School (if necessary)	0-5
Avia 123	Aviation Weather	5
Avia 225	Instrument Flight Operations and Procedures	5
<b>Second Quarter</b>		
Avia 201	Air Traffic Control 1	5
Avia 208	Airline Dispatch	5
Avia 209	International Flight Planning and ETOPS	5

**Helicopter Pilot**

Associate in Applied Science Degree  
104 Credits

The Commercial Helicopter Pilot FAA certificate (license) is required. This degree requires 150 hours of flight time. Flight training is conducted at Boeing Field, Tacoma Narrows, or Crest Airpark.

Dept./No.	Course Title	Credits
Avia 101	Aviation Fundamentals	5
Avia 103	Aviation History and Careers	5
Avia 110	Airline Operation	5
Avia 111	Private Pilot Ground School	5
Avia 112	Aircraft Systems	2
*Avia 123	Aviation Weather	5
Avia 128	Basic Weather Observation	3
Avia 132	Helicopter Private Pilot Flight 1	2
Avia 133	Helicopter Private Pilot Flight 2	2
Avia 134	Helicopter Private Pilot Flight 3	2
Avia 190	FAA Next Generation Technologies	5
Avia 201	Air Traffic Control 1	5
Avia 206	Helicopter Ground School	3
Avia 208	Airline Dispatch	5
Avia 211	Aerodynamics for Pilots	5
Avia 217	Aviation Security	5
Avia 218	Commercial Pilot Ground School	5
Avia 232	Helicopter Pilot Commercial Flight 1	2
Avia 233	Helicopter Pilot Commercial Flight 2	2
Avia 242	Helicopter Pilot Instrument Flight 1	2
Avia 243	Helicopter Pilot Instrument Flight 2	2
Avia 244	Helicopter Pilot Instructor	2
#Bus 166 or	Human Relations and Work Readiness or	
Cmst& 210 or	Interpersonal Communication or	
Cmst 238	Intercultural Communication	5
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
#Engl 100 or	Introductory Composition or	
Engl& 101 or	English Composition I or	
Engl 109 or	Writing for Trades/Professional Technical Degrees or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/Business	5
#Math 115T or	Technical Algebra/Trigonometry 1 or	
Natural Science	Any Math course 100 or higher	5
	Any Science course 100 or higher with a lab	5

**Suggested Electives:**

Any Computer course 100 or higher	(3-5)
Any GIS course	(5)
Any Math course 100 or higher	(5)
Avia 177-179 and	Aviation Work Experience 1-3 and (1-13)
Coop 171	Work Experience Seminar (1)
Natrs 117	Aerial Photography Uses and Ground Mapping (2)

#Satisfies related instruction requirements.

**Professional Pilot**  
**Associate in Applied Science Degree**  
 106 Credits

This degree program for Professional Pilot, Instrument Pilot and Commercial Pilot requires completion of the relevant certificates (licenses). All ground instruction and supporting courses are available on campus. Because Green River does not own or operate any aircraft, all flight training except for use of flight simulator, is completed at local airports where the flight schools are located. Each pilot certificate requires the passing of a flight physical, a written test, accumulation of a prescribed amount of flight time, and a flight test. The written test may be taken anytime, and actual flight time is not required. The pilot ground school and other supporting course at Green River prepare students for the written test.

**Suggested Electives:**

Any Computer course 100 or higher	(3-5)
Any GIS course	(5)
Any Math course 100 or higher	(5)
Any Science course 100 or higher	(5)
Avia 177-179 <b>and</b> Aviation Work Experience 1-3 <b>and</b>	(1-13)
Coop 171 Work Experience Seminar	(1)
Natrs 117 Aerial Photography Uses and Ground Mapping	(2)

*#Satisfies related instruction requirements.*

**Intermediate Aviation Knowledge**  
**Certificate of Proficiency**  
 15 Credits

This certificate program prepares individuals with only the private pilot background in aviation for the FAA Instrument Pilot written examination.

<u>Dept./No.</u>	<u>Course Title</u>	<u>Credits</u>
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 225	Instrument Flight Operations and Procedures	5

**Advanced Aviation Knowledge**  
**Certificate of Proficiency**  
 20 Credits

This certificate program prepares individuals with a private pilot and instrument rating background for the FAA Instrument Pilot written examination.

<u>Dept./No.</u>	<u>Course Title</u>	<u>Credits</u>
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 225	Instrument Flight Operations and Procedures	5

<u>Dept./No.</u>	<u>Course Title</u>	<u>Credits</u>
Avia 101	Aviation Fundamentals	5
Avia 103	Aviation History and Careers	5
Avia 110	Airline Operation	5
Avia 111	Private Pilot Ground School	5
Avia 112	Aircraft Systems	2
Avia 123	Aviation Weather	5
Avia 128	Basic Weather Observation	3
Avia 145	Professional Pilot Private Flight 1	2
Avia 146	Professional Pilot Private Flight 2	2
Avia 190	FAA Next Generation Technologies	5
Avia 201	Air Traffic Control 1	5
Avia 208	Airline Dispatch	5
Avia 211	Aerodynamics for Pilots	5
Avia 214	Airport Management and Operations	5
Avia 216 <b>and</b> Avia 225 <b>or</b> Avia 226	Basic Instrument Pilot Ground School <b>and</b> Instrument Procedures <b>or</b> Advanced Instrument Pilot Ground School	
Avia 218	Commercial Pilot Ground School	5
Avia 245	Professional Pilot Commercial Flight 1	2
Avia 246	Professional Pilot Commercial Flight 2	2
Avia 247	Professional Pilot Commercial Flight 3	2
Avia 255	Professional Pilot Instrument Flight 1	2
Avia 256	Professional Pilot Instrument Flight 2	2
Avia 257	Professional Pilot Instrument Flight 3	2
#Bus 166 <b>or</b> Cmst& 210 <b>or</b> Cmst 238	Human Relations and Work Readiness <b>or</b> Interpersonal Communication <b>or</b> Intercultural Communication	5
#Cmst 100 <b>or</b> Cmst& 220 <b>or</b> Cmst& 230	Fundamentals of Oral Communication <b>or</b> Public Speaking <b>or</b> Small Group Communication	5
#Engl 100 <b>or</b> Engl& 101 <b>or</b> Engl 109 <b>or</b>  Engl 126 <b>or</b> Engl 127 <b>or</b> Engl 128	Introductory Composition <b>or</b> English Composition I <b>or</b> Writing for Trades/Professional Technical Degrees <b>or</b> Writing: Humanities <b>or</b> Writing: Social Science <b>or</b> Research Writing: Science/Engineering/ Business	5
#Math 115T <b>or</b>	Technical Algebra/Trigonometry 1 <b>or</b> Any Math course 100 or higher	5
Natural Science	Any Science course 100 or higher with a lab	5

## AUTOBODY TECHNOLOGY (ABODY)

**Contacts:** Mark Millbauer, ext. 4285 [mmillbauer@greenriver.edu](mailto:mmillbauer@greenriver.edu)  
Paul Mueller, ext. 2635 [pmueller@greenriver.edu](mailto:pmueller@greenriver.edu)

### Auto Body Technology Associate in Applied Science Degree 109-116 Credits

This degree program educates students in the complete repair and refinishing of collision damaged vehicles. Graduates of this NATEF certified program will have acquired the skills necessary to enter into other aspects of the trade such as management, sales, and appraising.

The auto collision repair industry is becoming more technical and our graduates will have been trained with that in mind due to the help of competencies set forth by the National Automotive Technicians Education Foundation (NATEF) the National Institute for Automotive Service Excellence (ASE), and the Inter-Industry Conference on Collision Repair (I-Car).

This is an open entry program, and providing space is available, students may enter at the beginning of any quarter with instructor's permission.

Suggested first quarter classes for new students: Abody 100, 12 credits of Abody 104, and Indus 102.1 or Abody 102. See advisor for scheduling of subsequent quarters.

Dept./No.	Course Title	Credits
Abody 100	Conduct/Safety/Equipment	1
Abody 104	Non-Structural Repair	14
Abody 105	Structural Damage Repair	14
Abody 106	Mechanical and Electrical Repair	15
Abody 107	Plastics and Adhesives	2
Abody 108	Painting and Refinishing	20
Abody 109	Special Shop Practice	10
Abody 110	Estimating for Collision Repair	3
Abody 111	Collision Shop Estimator	3
Abody 177-179	Auto Body Work Experience 1-3	3
Abody 180-184	Industry Leadership 1-5	5
Indus 102.1	Welding Survey 1	3
Indus 102.2 or Abody 102	Welding Survey 2 or Introduction to Auto Metal Fabrication	3
First Aid/CPR	Possess First Aid/CPR card upon graduation	

#### Related Instruction Requirements:

#Cmst 100	Fundamentals of Oral Communication	5
#Engl 109	Writing for Trades and Professional/ Technical Degrees	5
#Human Relations	Any course that satisfies the Human Relations Related Instruction Requirements	3-5
#Acomp 100T or Math 062	Computation for the Trades or Review of Arithmetic or Eligible for Math 070	0-5

#Satisfies related instruction requirements.

For scheduling or transferability reasons, other courses from the current list of related instruction requirements may be substituted.

**Note:** Students whose primary language is not English, must pass ESOL Level 3 before enrolling in the Auto Body Technology program.

### Collision Repair Certificate of Proficiency 43 Credits

This certificate program prepares students for entry-level employment in the auto body and the collision repair industries. Students are instructed in the basics of auto body repair including structural and non-structural repair and welding through completion of National Automotive Technician Education Foundation (NATEF) certified courses.

This is an open-entry program, and providing space is available, students may enter at any time with instructor's permission.

Dept./No.	Course Title	Credits
Abody 100	Conduct/Safety/Equipment	1
Abody 104	Non-Structural Repair	14
Abody 105	Structural Damage Repair	14
Abody 107	Plastics and Adhesives	2
Abody 109	Special Shop Practice	6
Indus 102.1	Welding Survey 1	3
Indus 102.2 or Abody 102	Welding Survey 2 or Introduction to Auto Metal Fabrication	3

## BUSINESS APPLICATION SPECIALIST (BUS E)

**Contacts:** Tonya McCabe, ext. 4783 [Tmccabe@greenriver.edu](mailto:Tmccabe@greenriver.edu)  
Lea Ann Simpson, ext. 4393 [Lsimpson@greenriver.edu](mailto:Lsimpson@greenriver.edu)  
Julie Slettvet, ext. 4687 [Jslettvet@greenriver.edu](mailto:Jslettvet@greenriver.edu)  
M. J. Lockemy, ext. 4375 [mlockemy@greenriver.edu](mailto:mlockemy@greenriver.edu)

### Business Applications Specialist Associate in Applied Arts Degree 90 Credits

This degree program provides students an opportunity to develop essential business skills in their area of interest, as well as a comprehensive general education. Placement in courses depends on the student's prior education and experience. Students in this program must complete all required classes with a grade of 2.0 or higher. Students may enter this program at the beginning of any quarter. This program meets the college's related instruction requirements for the Associate in Applied Arts degree.

Dept./No.	Course Title	Credits
Lifetime Fitness/ Wellness/Activity	Any courses under the AA degree Lifetime Fitness/Wellness/Activity Area	1+
Bus E 100	Fundamentals of Computers	5

*Bus E 101	Beginning Typing/Keyboarding	5
*Bus E 102	Intermediate Keyboarding	5
#Bus E 110	Business Math Applications	5
Bus E 112 <b>or</b>	Beginning Word <b>or</b>	
Bus E 255	Advanced Word	5
#Bus E 130	Business Correspondence	5
Bus E 132	Business Communication Applications	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 162 <b>or</b>	Introduction to Excel <b>or</b>	
Bus E 163	Advanced Excel	5
Bus E 184 <b>or</b>	Internet and Basic Web Design <b>or</b>	
IT 121	Introduction to HTML	5
Bus E 185	Introduction to Microsoft Access	5
Bus E 214	Introduction to Information Security	5
Bus E 216	Computer Support Internship 1	2-5
Bus E 218	Basic Office PC Support	5
#Bus E 250	Office Relations and Procedures	5
Bus E 266	Inside Microsoft Office	5
#Cmst 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
Reading	Eligible for Read 104 (as determined by The appropriate COMPASS test score) <b>or</b> completion of Read 094	0-5

**Suggested Electives:**

Students must select from the following list of courses below to total a minimum of 90 credits.

Acct 110 <b>or</b>	Practical Financial Accounting 1 <b>or</b>	
Acct& 201 <b>or</b>	Principles of Accounting 1 <b>or</b>	
Bus E 090	Office Accounting	5
Acct 112	quickbooks for Accounting	5
Bus& 101 <b>or</b>	Introduction to Business <b>or</b>	
Bus 164	Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	5
Bus E 103	Advanced Keyboarding	5
Bus E 107 <b>and/or</b>	Typing Speed and Accuracy 1 <b>and/or</b>	
Bus E 108	Typing Speed and Accuracy 2	4-8
*Bus E 111	Personal Computing	3
*Bus E 115	Professional Image Building	1
Bus E 132	Business Communication Applications	5
Bus E 163	Advanced Excel	5
Bus E 170.1 <b>or</b>	Beginning Keyboarding-Alphabet Keys <b>or</b>	
Bus E 170.2 <b>or</b>	Keyboarding-Mastering 10-Key and Symbols <b>or</b>	
Bus E 170.3	Keyboarding-Speed and Accuracy- Skill Building	1
Bus E 171.1 <b>or</b>	PowerPoint: Preparing a Presentation <b>or</b>	
Bus E 171.2 <b>or</b>	PowerPoint: Design with Graphics and Multimedia <b>or</b>	
Bus E 171.3	PowerPoint: Customize and Incorporate Web Features	1
Bus E 173.1 <b>or</b>	Word: Create, Edit and Format Documents <b>or</b>	
Bus E 173.2 <b>or</b>	Word: Tables and Sharing Documents <b>or</b>	
Bus E 173.3 <b>or</b>	Word: Mail Merges and Other Productivity Tools <b>or</b>	

Bus E 173.4 <b>or</b>	Word: Create a Newsletter <b>or</b>	
Bus E 173.5	Word: Creating Forms, Macros and Document Security	1
Bus E 174.1 <b>or</b>	Excel: Introduction to Formulas and Functions <b>or</b>	5
Bus E 174.2 <b>or</b>	Excel: Charts and Working with Large Worksheets <b>or</b>	
Bus E 174.3 <b>or</b>	Excel as a Database <b>or</b>	
Bus E 174.4 <b>or</b>	Excel: Data Consolidation and What-If Analysis <b>or</b>	
Bus E 174.5	Excel: Collaboration, the Web and Macros	1
Bus E 175	Instructor Assistant	1-5
Bus E 176.1 <b>or</b>	Access: Create and Modify a Database <b>or</b>	
Bus E 176.2 <b>or</b>	Access: Use Queries to Produce Information <b>or</b>	
Bus E 176.3 <b>or</b>	Access: Create and Modify Forms <b>or</b>	
Bus E 176.4	Access: Create and Modify Reports	1
†Bus E 177-179	Business Education Work Experience 1-3 <b>and</b>	2-10
Coop 171	Work Experience Seminar	1
Bus E 217	Computer Support Internship 2	2-5
Bus E 219	Basic Networking Concepts	5
Bus E 255	Advanced Word	5
Psyc& 100	General Psychology	5
Soc& 101	Introduction to Sociology	5

#Satisfies related instruction requirements.

\*Credit by advanced placement may be granted in typing/keyboarding after departmental review of prior training.

°Qualifies as AA activity credit.

†Students may earn up to 10 credits through Work Experience classes.

**Business Applications Specialist**

**Certificate**

75-80 Credits

This certificate program provides students an opportunity to develop essential business skills. Earning a Business Applications Specialist certificate provides students with the educational background and skills to help secure employment as an office worker in an entry-level position. These credits can be applied to any Business Education degree program. Students in this program must complete all required classes with a grade of 2.0 or higher.

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Bus E 100	Fundamentals of Computers	5
*Bus E 102	Intermediate Keyboarding	5
#Bus E 110	Business Math Applications	5
Bus E 112 <b>or</b>	Beginning Word <b>or</b>	
Bus E 255	Advanced Word	5
#*Bus E 130	Business Correspondence	5
Bus E 132	Business Communication Applications	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 162 <b>or</b>	Introduction to Excel <b>or</b>	
Bus E 163	Advanced Excel	5
Bus E 184 <b>or</b>	Internet and Basic Web Design <b>or</b>	
IT 121	Introduction to HTML	5

Bus E 185	Introduction to Microsoft Access	5
Bus E 218	Basic Office PC Support	5
#Bus E 250	Office Relations and Procedures	5
Bus E 266	Inside Microsoft Office	5
#Cmst 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
Reading	Eligible for Read 104 (as determined by the Appropriate COMPASS test score) <b>or</b> Completion of Read 094	0-5

**Suggested Electives:**

Students must select from the following list of courses to total a minimum of 90 credits.

Acct 110 <b>or</b>	Practical Financial Accounting 1 <b>or</b>	
Acct& 201 <b>or</b>	Principles of Accounting 1 <b>or</b>	
Bus E 090	Office Accounting	5
Acct 112	Quickbooks for Accounting	5
Art 109	Beginning Design	5
Bus& 101 <b>or</b>	Introduction to Business <b>or</b>	
Bus 164	Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	5
Bus E 101	Beginning Typing/Keyboarding	5
Bus E 103	Advanced Keyboarding	5
Bus E 107 <b>and/or</b>	Typing Speed and Accuracy 1 <b>and/or</b>	
Bus E 108	Typing Speed and Accuracy 2	4-8
°Bus E 111	Personal Computing	3
°Bus E 115	Professional Image Building	1
Bus E 132	Business Communication Applications	5
Bus E 163	Advanced Excel	5
Bus E 170.1 <b>or</b>	Beginning Keyboarding-Alphabet Keys <b>or</b>	
Bus E 170.2 <b>or</b>	Keyboarding-Mastering 10-Key and Symbols <b>or</b>	
Bus E 170.3	Keyboarding-Speed and Accuracy- Skill Building	1
Bus E 171.1 <b>or</b>	PowerPoint: Preparing a Presentation <b>or</b>	
Bus E 171.2 <b>or</b>	PowerPoint: Design with Graphics <b>and</b> Multimedia <b>or</b>	
Bus E 171.3	PowerPoint: Customize and Incorporate Web Features	1
Bus E 173.1 <b>or</b>	Word: Create, Edit and Format Documents <b>or</b>	
Bus E 173.2 <b>or</b>	Word: Tables and Sharing Documents <b>or</b>	
Bus E 173.3 <b>or</b>	Word: Mail Merges and Other Productivity Tools <b>or</b>	
Bus E 173.4 <b>or</b>	Word: Create a Newsletter <b>or</b>	
Bus E 173.5	Word: Creating Forms, Macros and Document Security	1
Bus E 174.1 <b>or</b>	Excel: Introduction to Formulas and Functions <b>or</b>	
Bus E 174.2 <b>or</b>	Excel: Charts and Working with Large Worksheets <b>or</b>	
Bus E 174.3 <b>or</b>	Excel as a Database <b>or</b>	
Bus E 174.4 <b>or</b>	Excel: Data Consolidation and What-If Analysis <b>or</b>	
Bus E 174.5	Excel: Collaboration, the Web and Macros	1
Bus E 175	Instructor Assistant	1-5
Bus E 176.1 <b>or</b>	Access: Create and Modify a Database <b>or</b>	

Bus E 176.2 <b>or</b>	Access: Use Queries to Produce Information <b>or</b>	
Bus E 176.3 <b>or</b>	Access: Create and Modify Forms <b>or</b>	
Bus E 176.4	Access: Create and Modify Reports	1
Bus E 177 <b>and</b>	Business Education Work Experience 1 <b>and</b>	3-5
Coop 171	Work Experience Seminar	1
Bus E 214	Introduction to Information Security	5
Bus E 216	Computer Support Internship 1	2-5
Bus E 217	Computer Support Internship 2	2-5
Bus E 219	Basic Networking Concepts	5
Bus E 255	Advanced Word	5

#Satisfies related instruction requirements.

\*Credit by advanced placement may be granted in typing/keyboarding after departmental review of prior training.

°Qualifies as AA activity credit.

## Business Applications for Small Business

### Certificate

40 Credits

This certificate program provides students an opportunity to develop essential business skills. Earning this certificate provides students with the educational background and skills to be involved in a small business focusing on current business applications. Students in this program must complete all required classes with a grade of 2.0 or higher.

Dept./No.	Course Title	Credits
<b>Required Classes</b>		
Acct 110	Practical Financial Accounting 1	5
Bus 164	Entrepreneurship and Small Business Management	5
†Bus E 101	Beginning Typing/Keyboarding	5
Bus E 130	Business Correspondence	5
Bus E 132	Business Communication Applications	5
Bus E 162 <b>or</b>	Introduction to Excel <b>or</b>	
Bus E 163	Advanced Excel	5
Bus E 214	Introduction to Information Security	5
Bus E 266	Inside Microsoft Office	5

**Electives:** Select one of the following courses to total 40 credits:

Acct 111	Practical Financial Accounting 2	(5)
Acct 112	Quickbooks for Accounting	(5)
Bus E 110	Business Math Applications	(5)
Bus E 112 <b>or</b>	Beginning Word <b>or</b>	
Bus E 255	Advanced Word	(5)
Bus E 140	Records Management	(5)
Bus E 150	Introduction to Windows	(5)
Bus E 163	Advanced Excel	(5)
Bus E 184 <b>or</b>	Internet and Basic Web Design <b>or</b>	
IT 121	Introduction to HTML	(5)
Bus E 185	Introduction to Microsoft Access	(5)
Bus E 216	Computer Support Internship 1	(5)

†Bus E 101 Beginning Typing/Keyboarding may be waived by passing a 5-minute typing test at 40 wpm with five or less errors using the proper touch typing techniques. Elective credits may be used to meet the minimum degree requirements.

## BUSINESS MANAGEMENT (BUS)

**Contact:** Jeff Perlot, ext. 4865  
[jperlot@greenriver.edu](mailto:jperlot@greenriver.edu)

### Business Management Associate in Applied Arts Degree 91-96 Credits

This degree program prepares students to be successful in a wide range of business careers. The focus is on providing a broad set of business skills that will help students perform better in the workplace and increase their advancement opportunities. Career paths in business management include marketing, sales, general management, project management, small business, and more.

Business Management courses emphasize practical application of skills important for personal and professional development. Our students range from those with no business experience to those with more than two decades in the workforce.

Dept./No.	Course Title	Credits
*Keyboarding	30 wpm (test administered by the Business Education Dept.)	
Reading	Eligible for Read 104 or completion of Read 094	0-5
Acct 110 <b>or</b> Acct& 201	Practical Financial Accounting 1 <b>or</b> Principles of Accounting I	5
#B A 145 <b>or</b> Math& 107 <b>or</b> Math 147	Business Computation <b>or</b> Math in Society <b>or</b> Finite Math for Business and Social Science	5
Bus& 101 <b>or</b> Bus 164	Introduction to Business <b>or</b> Entrepreneurship and Small Business Management	5
Bus 103	Business Leadership	4
Bus 121	Marketing Fundamentals	5
Bus 159	Professional Selling	5
#Bus 166	Human Relations and Work Readiness	5
Bus 173	Basic Financial Management	5
Bus 175	Career Management Seminar	1
Bus 181	Introduction to International Business	5
Bus 202	Project Management and E-Business	5
Bus 257	Customer Service Strategies	5
Bus 258	Principles of Management and Supervision	5
Bus E 100	Fundamentals of Computers	5
#Bus E 130 <b>or</b> Engl& 101	Business Correspondence <b>or</b> English Composition 1	5
Bus E 162	Introduction to Excel	5
#Cmst& 210 <b>or</b> Cmst& 220	Interpersonal Communication <b>or</b> Public Speaking	5

*Students must choose 10 credits from the following electives. Students wishing to obtain an additional specialized certificate should seek advising assistance.*

Acct Any Accounting course 100 level **or** higher

Bus	Any Business Management course 100 level <b>or</b> higher
Bus E	Any Business Education course 100 level <b>or</b> higher
Bus 177	Supervised Work Experience
Cmst	Any Communication Studies course 100 level <b>or</b> higher
Econ	Any Economics course 100 level <b>or</b> higher
Engl	Any English course 100 level <b>or</b> higher
Pols& 200	Introduction to Law and Commerce

*#Satisfies related instruction requirements.*

*\*Keyboarding/typing skills may be demonstrated by passing a 3-minute typing test at 30 wpm with 5 or less errors using the proper typing techniques administered by the Business Education Department.*

## COMPUTER REPORTING TECHNOLOGIES (CRPT)

**Contacts:** Lori Rapozo, ext. 4219      Sidney Weldele-Wallace, ext.4705  
[lrapozo@greenriver.edu](mailto:lrapozo@greenriver.edu)      [sweldele@greenriver.edu](mailto:sweldele@greenriver.edu)

### Captioning – Sequence A Associate in Applied Arts Degree 144-209 Credits

Realtime captioning is done by specially trained court reporters called stenocaptioners. The stenocaptioner utilizes a steno machine to provide captions of live television programs and other forms of media for hearing-impaired viewers through realtime technology that instantly produces readable English text. Broadcast captioners work for local stations and for national networks captioning news, emergency broadcasts, sporting events, and other programming.

Another facet of the captioning process is called Communication Access Realtime Translation (CART). This area allows stenocaptioners to provide more personalized services for hearing-impaired people. Most hearing-impaired people lose their hearing postlingually -- after acquiring reading and speaking skills -- and many of them do not become as proficient with a sign language as they are at reading text. CART reporters may accompany deaf or hearing-impaired clients as needed to classes, meetings, conferences, doctor appointments, church services, etc., to provide instant conversion of speech into text using the steno machine linked to a laptop computer.

The Green River Computer Reporting Technologies program is approved by the National Court Reporters Association. All students entering the program must be high school graduates or have earned a GED certificate. A COMPASS spelling test score of 90 percent accuracy or higher or Engl 090 is required prior to entry into the Computer Reporting Technologies Program.



Upon completion of the required classes, students qualify for the Associate in Applied Arts degree in Captioning. They must have completed 40 hours of internship of which 25 hours is actual writing time and 15 hours is research and dictionary preparation; passed three 15-minute literary broadcast material tests at 180 wpm at 96 percent accuracy or higher; and passed three 5-minute tests on Q&A (two-voice) at 225 wpm with 95 percent accuracy or higher.

In addition to the course work, there are recommended state and/or national examinations that a student should pass to become a captioner or CART provider.

**Additional Suggested Electives:**

*Electives might not be eligible for financial aid or veteran's benefits. (See your financial aid advisor.)*

Bus E 112	Beginning Word	5
Bus E 255	Advanced Word	5
Phil 112	Ethics in the Workplace	5

*#Satisfies related instruction requirements.*

*\*Keyboarding/typing skills may be demonstrated by passing two 5-minute typing tests at 60 wpm with 5 or less errors using the proper typing techniques administered by the Business Education Department.*

**Captioning – Sequence B**  
Associate in Applied Arts Degree  
102-139 Credits

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
#B A 145 or	Business Computation or	
Bus E 110 or	Business Math Applications or	
Math 072	Eligible for Math 072	0-5
Bus E 109	Legal Terminology	3
#Bus E 130 or	Business Correspondence or	
Engl& 101 or	English Composition 1 or	
Engl 109	Writing for Trades and Professional/ Technical Degrees	5
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220	Public Speaking	5
Crpt 100.1	Machine Shorthand Theory 1	10
Crpt 100.2	Machine Shorthand Theory 2	10
Crpt 101.1	Machine Shorthand Theory 3	10
Crpt 101.2	Machine Shorthand – 60 wpm	10
Crpt 102	Machine Shorthand – 80 wpm	8-12
Crpt 133	Machine Shorthand – 100 wpm	8-16
Crpt 134	Machine Shorthand – 120 wpm	8-16
Crpt 135	Machine Shorthand – 140 wpm	8-16
Crpt 136	Machine Shorthand – 160 wpm	8-16
#Crpt 153	Court Reporting Procedures 1	5
Crpt 201	Machine Shorthand – 180 wpm	8-16
Crpt 202	Machine Shorthand – 200 wpm	8-16
Crpt 203	Machine Shorthand – 225 wpm	8-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Crpt 252	Captioning Internship 1	4
Crpt 253	Captioning Internship 2	4
Crpt 254	Captioning Internship 3	4
Edec 220	Introduction to Sign Language 1	2
Engl 108	Medical Terminology	2
<i>To enhance the student's preparation for future employment, the following are recommended:</i>		
Acct 110	Practical Financial Accounting 1	5
Bus 103	Business Leadership	5
Bus& 201 or	Business Law and the Regulation of Business or	
Pols& 200	Introduction to Law and Commerce	5
Bus E 100	Fundamentals of Computers	5
Bus E 107 or	Typing Speed and Accuracy 1 or	5
Bus E 108 or	Typing Speed and Accuracy 2 or	
*Typing test	60 wpm with less than 5 errors	0-4
Bus E 184	Internet and Basic Web Design	5
Bus E 266	Inside Microsoft Office	5
Crpt 255	Computer-Aided Transcription-Advanced	3
Engl 106	Vocabulary Mastery	5
Lib 101	Searching Electronic Databases	2

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
#B A 145 or	Business Computation or	
Bus E 109	Legal Terminology	3
Bus E 110 or	Business Math Applications or	
Math 072	Eligible for Math 072	0-5
#Bus E 130 or	Business Correspondence or	
Engl& 101 or	English Composition 1 or	
Engl 109	Writing for Trades and Professional/ Technical Degrees	5
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220	Public Speaking	5
Crpt 080	Machine Shorthand Lab	0-6
Crpt 090.1	Machine Shorthand Theory-Beginning	3-4
Crpt 090.2	Machine Shorthand Theory-Intermediate	3-4
Crpt 091	Machine Shorthand Theory-Advanced	3-4
Crpt 092	Machine Shorthand – 40 wpm	3-4
Crpt 093	Machine Shorthand – 60 wpm	3-4
Crpt 094	Machine Shorthand – 80 wpm	5-6
Crpt 095	Machine Shorthand – 100 wpm	5-6
Crpt 096	Machine Shorthand – 120 wpm	5-6
Crpt 097	Machine Shorthand – 140 wpm	5-6
Crpt 098	Machine Shorthand – 160 wpm	5-6
Crpt 099	Machine Shorthand – 180 wpm	5-6
#Crpt 153	Court Reporting Procedures 1	5
Crpt 154	Court Reporting Procedures 2	5
Crpt 177-179 and	Court Reporting/Captioning Work Experience 1-3 and	2-6
Crpt 202	Machine Shorthand – 200 wpm	8-16
Crpt 203	Machine Shorthand – 225 wpm	8-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Crpt 252	Captioning Internship 1	4
Crpt 253	Captioning Internship 2	4
Crpt 254	Captioning Internship 3	4
Edec 220	Introduction to Sign Language	2
Engl 108	Medical Terminology	2

*To enhance the student's preparation for future employment, the following are recommended:*

Acct 110	Practical Financial Accounting 1	5
Bus 103	Business Leadership	5
Bus& 201 <b>or</b>	Business Law <b>or</b>	
Pols& 200	Introduction to Law	5
Bus E 100	Fundamentals of Computers	5
Bus E 107 <b>or</b>	Typing Speed and Accuracy 1 <b>or</b>	
Bus E 108 <b>or</b>	Typing Speed and Accuracy 2 <b>or</b>	
*Typing test	60 wpm with less than 5 errors	0-4
Bus E 184	Internet and Basic Web Design	5
Bus E 266	Inside Microsoft Office	5
Crpt 255	Computer-Aided Transcription–Advanced	3
Engl 106	Vocabulary Mastery	5
Lib 101	Searching Electronic Databases	2

**Additional Suggested Electives:**

*Electives might not be eligible for financial aid or veteran’s benefits. (See your financial aid advisor.)*

Bus E 112	Beginning Word	5
Bus E 255	Advanced Word	5
Phil 112	Ethics in the Workplace	5

#Satisfies related instruction requirements.

\*Keyboarding/typing skills may be demonstrated by passing two 5-minute typing tests at 60 wpm with 5 or less errors using the proper typing techniques administered by the Business Education Department.

## Court Reporting – Sequence A

### Associate in Applied Science Degree

148-217 Credits

Court Reporters record the verbatim proceedings of a courtroom, deposition, hearing, arbitration, or meeting and provide an accurate transcript of the proceedings. Students learn how to prepare the transcript with the use of a computer. Additionally, students are trained in realtime writing and captioning for the hearing-impaired and nonhearing community. This skill affords new job opportunities.

Official court reporters record the proceedings in a court or hearing room. Freelance reporters may work in various offices or locations as the job necessitates and may be employed by a reporting firm.

The Green River Court Reporting program is accredited by the National Court Reporters Association. All students entering the Court Reporting program must be high school graduates or have earned a GED certificate. A COMPASS spelling test score of 90% accuracy or above or ENGL 090 is required prior to entry into the Computer Reporting Technologies Program.

Upon completion of the required classes, students qualify for the Associate in Applied Arts degree in Court Reporting. They must have completed 60 hours of internship of which 50 hours is actual writing time during internship training; passed three 5-minute tests with 96% accuracy or above on literary at 180 wpm and jury charge at 200 wpm; and passed three 5-minute tests on Q and A (two-voice) at 225 wpm, two with 95% accuracy and two with 96% accuracy or above.

In addition to the course work, there are state and/or national examinations that a student should pass to become a court reporter.

Reporters must pass the Washington State Licensing examination in order to be certified to work in the state of Washington.

<u>Dept./No.</u>	<u>Course Title</u>	<u>Credits</u>
AP 100	Survey of Human Anatomy-Physiology	5
#B A 145 <b>or</b>	Business Computation <b>or</b>	
Bus E 110 <b>or</b>	Business Math Applications <b>or</b>	
Math	Eligible for Math 072	0-5
Bus E 109	Legal Terminology	3
#Bus E 130 <b>or</b>	Business Correspondence <b>or</b>	
Engl 109 <b>or</b>	Practical College Writing <b>or</b>	
Engl& 101	College Writing	5
#Cmst 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst 220	Basic Speech Communication	5
Crpt 100.1	Machine Shorthand Theory 1	10
Crpt 100.2	Machine Shorthand Theory 2	10
Crpt 101.1	Machine Shorthand Theory 3	10
Crpt 101.2	Machine Shorthand – 60 wpm	10
Crpt 102	Machine Shorthand – 80 wpm	8-12
Crpt 133	Machine Shorthand – 100 wpm	8-16
Crpt 134	Machine Shorthand – 120 wpm	8-16
Crpt 135	Machine Shorthand – 140 wpm	8-16
Crpt 136	Machine Shorthand – 160 wpm	8-16
#Crpt 153	Court Reporting Procedures 1	5
#Crpt 154	Court Reporting Procedures 2	5
Crpt 177-179 <b>and</b>	Court Reporting/Captioning Work Experience <b>and</b>	2-6
Coop 171	Work Experience Seminar	1
Crpt 201	Machine Shorthand – 180 wpm	8-16
Crpt 202	Machine Shorthand – 200 wpm	8-16
Crpt 203	Machine Shorthand – 225 wpm	8-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Engl 105	Grammar and Usage	5
Engl 108	Medical Terminology	2

*To enhance the student’s preparation for future employment, the following are recommended:*

Acct 110	Practical Financial Accounting	5
Bus& 201	Business Law and the Regulation of Business	
Bus E 100	Fundamentals of Computers	5
Bus E 107 <b>or</b>	Typing Speed and Accuracy 1 <b>or</b>	
Bus E 108	Typing Speed and Accuracy 2 <b>or</b>	
*Typing Test	60 wpm with fewer than 5 errors	0-4
Bus E 184	Internet & Basic Web Design	5
Bus E 266	Inside Microsoft Office	5
Crpt 255	Computer-Aided Transcription Advanced	3
Engl 106	Vocabulary Mastery	5

**Additional Suggested Electives:**

*Electives might not be eligible for financial aid or veteran’s benefits. (See your financial aid advisor.)*

Bus E 112	Beginning Word for Windows	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 162	Introduction to Excel	5
Bus E 255	Advanced Word	5
CJ& 101	Introduction to Criminal Justice	5
CJ& 240	Forensics: An Introduction to Criminalistics	5

#Satisfies related instruction requirement.

\*Keyboarding/typing skills may be demonstrated by passing two 5-minute typing tests at 60 wpm with 5 or less errors using the proper typing techniques administered by the Business Education Department.

## Court Reporting-Sequence B

### Associate in Applied Science Degree

106-147 Credits

Dept./No.	Course Title	Credits
AP 100	Survey of Human Anatomy-Physiology	5
#B A 145 or	Business Computation or	
Bus E 110 or	Business Math Applications or	
Math	Eligible for Math 072	0-5
Bus E 109	Legal Terminology	3
#Bus E 130 or	Business Correspondence or	
Engl 109 or	Writing for Trades/Professional Technical Degrees or	
Engl& 101	English Composition I	5
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220	Public Speaking	5
Crpt 080	Machine Shorthand Lab	1-6
Crpt 090.1	Machine Shorthand Theory Beginning	3-4
Crpt 090.2	Machine Shorthand Theory Intermediate	3-4
Crpt 091	Machine Shorthand Theory-Advanced	3-4
Crpt 092	Machine Shorthand – 40 wpm	3-4
Crpt 093	Machine Shorthand – 60 wpm	3-4
Crpt 094	Machine Shorthand – 80 wpm	5-6
Crpt 095	Machine Shorthand – 100 wpm	5-6
Crpt 096	Machine Shorthand – 120 wpm	5-6
Crpt 097	Machine Shorthand – 140 wpm	5-6
Crpt 098	Machine Shorthand – 160 wpm	5-6
Crpt 099	Machine Shorthand – 180 wpm	5-6
#Crpt 153	Court Reporting Procedures 1	5
#Crpt 154	Court Reporting Procedures 2	5
Crpt 177-179 and	Court Reporting/Captioning Work Experience and	2-6
Coop 171	Work Experience Seminar	1
Crpt 202	Machine Shorthand – 200 wpm	8-16
Crpt 203	Machine Shorthand – 225 wpm	8-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Engl 105	Grammar and Usage	5
Engl 108	Medical Terminology	2

To enhance the student's preparation for future employment, the following are recommended:

Acct 110	Practical Financial Accounting 1	5
Bus& 201	Business Law and the Regulation of Business	
Bus E 100	Fundamentals of Computers	5
Bus E 107 or	Typing Speed and Accuracy 1 or	
Bus E 108 or	Typing Speed and Accuracy 2 or	
*Typing Test	60 wpm with less than 5 errors	0-4
Bus E 184	Internet and Basic Web Design	5
Bus E 266	Inside Microsoft Office	5
Crpt 255	Computer-Aided Transcription Advanced	3
Engl 106	Vocabulary Mastery	5

### Additional Suggested Electives:

Electives might not be eligible for financial aid or veteran's benefits. (See your financial aid advisor.)

Bus E 112	Beginning Word	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 162	Introduction to Excel	5
Bus E 255	Advanced Word	5
CJ& 101	Introduction to Criminal Justice	5
CJ& 240	Intro to Forensic Science	5

#Satisfies related instruction requirement.

\*Keyboarding/typing skills may be demonstrated by passing two 5-minute typing tests at 60 wpm with 5 or less errors using the proper typing techniques administered by the Business Education Department.

## DESIGN TECHNOLOGY (D T)

**Contacts:** Terry Waagan, ext. 4342      Felix Serna, ext.4321  
[twaaagan@greenriver.edu](mailto:twaaagan@greenriver.edu)      [fserna@greenriver.edu](mailto:fserna@greenriver.edu)

### Design Drafting Technology

#### Associate in Applied Science Degree

110-112 Credits

This degree program allows students to sample a broad range of drafting careers, including studies in mechanical, architectural, civil, structural, and electrical-electronics drafting. Students develop proficiency in board drafting and computer-aided drafting. Students prepare drawings for manufacturing and fabrication. The American National Standards Institute (ANSI) and the American Society of Mechanical Engineers (ASME) drafting and design standards are taught and reinforced as students prepare drawings in both 2-D and 3-D using AutoCAD, KeyCreator, and Mastercam applications software. Throughout this course of study, students use sketches, notes, technical literature, and personal research to complete assignments. Students may take related credits in the trade areas of building, manufacturing, engineering, welding, and surveying.

Dept./No.	Course Title	Credits
<b>Required Courses:</b>		
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220	Public Speaking	5
D T 100 or	Introduction to CADD/CAM or	(7)
D T 110 and	Introduction to AutoCAD and	(4)
D T 112	Introduction to KeyCreator	(4) 7-8
D T 101 or	Technical Drafting or	(7)
D T 101.1 and	Drafting Fundamentals and	(4)
D T 101.2	Machine Drafting 1	(3) 7
D T 102 or	Descriptive Geometry or	(7)
D T 102.1 and	Descriptive Geometry and	(4)
D T 102.2	Machine Drafting 2	(3) 7
D T 105 or	Design Drafting Careers or	

Tech 100	Careers for the New Millennium	2
D T 113 <b>or</b>	Introduction to SolidWorks <b>or</b>	
D T 236	Introduction to Inventor	4
D T 131	Mechanical Drafting-CADD	7
D T 135	3-D CADD/CAM	7
D T 151	Technical Illustration	7
#D T 231	Mechanical Design (CADD)	7
#Engl 109 <b>or</b>	Writing for Trades and Professional/ Technical Degrees <b>or</b>	
Engl 128	Research Writing: Science/Engineering/ Business	5
#Math 116T <b>or</b>	Technical Math 2 <b>or</b>	
Math& 142 <b>or</b>	Precalculus II <b>or</b>	
Math& 151	Calculus I	5
Phys& 114 <b>or</b>	General Physics I with Lab <b>or</b>	
Phys& 221	Engineering Physics I with Lab	5
<b>Three credits from the following courses:</b>		3
Carp	Any Carpentry course	(1-4)
Indus 102.1	Welding Survey 1	(3)
Mfg 101 <b>and</b>	Introduction to Machining and Manufacturing <b>and</b>	(1-13)
Mfg 102	Conventional Milling and Turning	(1-13)
<b>Four credits from the following courses:</b>		4
Carp 148	Material Estimating	(5)
Engr& 214	Statics	(5)
I E 189	Basic Metallurgy	(4)
I E 204	Statics and Strengths	(5)
<b>Suggested Electives:</b>		28
<i>Additionally, complete 28 credits from the following list:</i>		
Bus 164	Entrepreneurship and Small Business Management	(5)
D T 110	Introduction to AutoCAD	(4)
D T 113	Introduction to SolidWorks	(4)
D T 115	Geometric Dimensioning and Tolerancing	(4)
D T 125	Civil Drafting 1	(5)
D T 141	Architectural Drafting 1	(5)
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)
D T 200	ADDA Certification Preparation	(2)
D T 210	Advanced AutoCAD Development 1	(4)
D T 225	Civil Drafting 2	(4)
D T 232	Drafting and Design Projects (CADD)	(7)
D T 236	Introduction to Inventor	(4)
D T 237	Advanced 3-D CADD/CAM	(4)
D T 238	Intermediate Inventor	(3)
D T 241	Architectural Drafting 2	(4)
GIS 121	Introduction to GIS	(5)
GIS 260	Cartography-Based GIS	(5)
I E 114	CATIA-2-D	(4)
I E 210	CATIA-Modeling	(7)
I E 214	CATIA-Solids	(5)
I E 215	CATIA-3-D Surfacing	(4)
Natrs 181	Forest Navigation and Mapping	(8)
<b>A maximum of eight credits from the following courses:</b>		8

Carp	Any Carpentry course	(4)
Engr 106	Introduction to Engineering Problems	(3)
Engr& 214	Statics	(5)
I E 189	Basic Metallurgy	(4)
I E 204	Statics and Strengths	(5)
<b>A maximum of eight credits from the following courses:</b>		8
Carp	Any Carpentry course	(1-8)
Indus	Any Industry shop/lab course	(1-8)
Mfg	Any Manufacturing shop/lab course	(1-8)
Weld	Any Welding shop/lab course	(1-8)
<b>A maximum of 13 credits from the following courses:</b>		13
Coop 171	Work Experience Seminar	(1)
D T 175	Drafting Work Experience	(4-12)
D T 177 <b>or</b>	Drafting Work Experience 1 <b>or</b>	(3)
D T 178 <b>or</b>	Drafting Work Experience 2 <b>or</b>	(3)
D T 179	Drafting Work Experience 3	(3)
D T 180 <b>or</b>	Leadership Skills 1 <b>or</b>	(1)
D T 181 <b>or</b>	Leadership Skills 2 <b>or</b>	(1)
D T 182	Leadership Skills 3	(1)
D T 199 <b>or</b>	Independent Study-Drafting 1 <b>or</b>	(1-5)
D T 299	Independent Study-Drafting 2	(1-5)
D T 277 <b>or</b>	Drafting Work Experience 4 <b>or</b>	(3)
D T 278 <b>or</b>	Drafting Work Experience 5 <b>or</b>	(3)
D T 279	Drafting Work Experience 6	(3)
P E 113	Group Dynamic Activities	(1)
Tech 100	Careers for the New Millennium	(2)
<b>A maximum of ten credits from the following courses:</b>		10
Engl 100	Introductory Composition	(5)
Engl& 101	English Composition I	(5)
Math 117T	Technical Math 3	(5)
Math& 141	Precalculus I	(5)
Math& 151	Calculus I	(5)
Math& 152	Calculus II	(5)
Phys& 115	General Physics II with Lab	(5)

#Satisfies related instruction requirements.

**Note:** Courses used to satisfy "Required Courses" requirements may not be used to satisfy "Elective Courses" requirements.

## Construction Design Technology

### Associate in Applied Science Degree

120 Credits

This degree program allows students to be employed by firms connected with the construction and building industry. Using board drafting techniques and computer-aided drafting, students prepare drawings in both 2-D and 3-D. Throughout the program, industry-accepted drafting and design standards will be taught and reinforced. Students use sketches, notes, technical literature, and personal research to complete assignments. Students complete related credits in the areas of construction and engineering.

<u>Dept./No.</u>	<u>Course Title</u>	<u>Credits</u>
<b>Required Courses:</b>		
Bus 164	Entrepreneurship and Small Business	

	Management	5
Carp 151 <b>or</b>	International Residential Code <b>or</b>	
Carp 152	International Building Code	3
#Cmst 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 210	Interpersonal Communication	5
Coop 171	Work Experience Seminar	1
D T 100 <b>or</b>	Introduction to CADD/CAM <b>or</b>	(7)
D T 110 <b>and</b>	Introduction to AutoCAD <b>and</b>	(4)
D T 112	Introduction to KeyCreator	(4) 7-8
*D T 101 <b>or</b>	Technical Drafting <b>or</b>	(7)
D T 101.1 <b>and</b>	Drafting Fundamentals <b>and</b>	(4)
D T 101.2	Machine Drafting	(3) 7
*D T 102 <b>or</b>	Descriptive Geometry <b>or</b>	(7)
D T 102.1 <b>and</b>	Descriptive Geometry <b>and</b>	(4)
D T 102.2	Machine Drafting 2	(3) 7
*D T 105 <b>or</b>	Design Drafting Careers <b>or</b>	
Tech 100	Careers for the New Millennium	2
D T 125	Civil Drafting 1	5
D T 131	Mechanical Drafting-CADD	7
D T 141	Architectural Drafting 1	5
D T 151 <b>or</b>	Technical Illustration <b>or</b>	
Natrs 181	Forest Navigation and Mapping	7-8
D T 225	Civil Drafting 2	4
#D T 231 <b>or</b>	Mechanical Design (CADD) <b>or</b>	
	Three credits of the Human Relations Related Instructions requirement	3-7
D T 241	Architectural Drafting 2	4
#Engl 109 <b>or</b>	Writing for Trades and Professional/ Technical Degrees <b>or</b>	
Engl 128	Research Writing: Science/Engineering/ Business	5
GIS 121	Introduction to GIS	5
GIS 260	Cartography-Based GIS	5
Engr& 214 <b>or</b>	Statics <b>or</b>	
I E 204	Statics and Strengths	5
#Math 116T <b>or</b>	Technical Math 2 <b>or</b>	
Math& 142 <b>or</b>	Precalculus II <b>or</b>	
Math& 151	Calculus I	5
Phys& 114 <b>or</b>	General Physics I with Lab <b>or</b>	
Phys& 221	Engineering Physics I with Lab	5
<b>Completion of a minimum of two (2) classes from the following courses:</b>		
		<b>8</b>
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)
<b>Suggested Electives:</b>		
<i>Select from the following to total 120 credits:</i>		
Carp	Any Carpentry course	(4)
Carp 151	International Residential Code	(3)
Carp 152	International Building Code	(3)
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)
D T 151	Technical Illustration	(7)
D T 175	Drafting Work Experience	(4-6)
D T 177-179	Drafting Work Experience 1-3	(3 ea)

D T 180-182	Leadership Skills 1-3	(1 ea)
D T 199 <b>or</b> 299	Independent Study-Drafting 1 <b>or</b> 2	(1-5 ea)
D T 200	ADDA Certification	(2)
D T 231	Mechanical Design (CADD)	(7)
D T 210	Advanced AutoCAD Development 1	(4)
D T 277-279	Drafting Work Experience 4-6	(3 ea)
Engr 106	Introduction to Engineering Problems	(3)
P E 113	Group Dynamics Activities	(1)

#Satisfies related instruction requirements.

## Mechanical Design Technology

### Associate in Applied Science –Transfer Degree (AAS-T) 120 Credits

Mechanical designers and technicians assist engineers in industry and require a very broad technological background. Students in this program develop proficiency in board drawing and computer-aided drafting. Students are able to prepare drawings for manufacturing and fabrication. The ANSI (American National Standards Institute) and the ASME (American Society of Mechanical Engineers) drafting and design standards are taught and reinforced as students prepare drawings in both 2-D and 3-D using AutoCAD, KeyCreator, and Mastercam applications software. Throughout this course of study, students use sketches, notes, technical literature, and personal research to complete assignments. Students complete related credits in the areas of manufacturing and engineering.

For additional information, see the course description listed under Design Technology.

Dept./No.	Course Title	Credits
#Cmst 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst &220	Public Speaking	5
D T 100 <b>or</b>	Introduction to CADD/CAM <b>or</b>	(7)
D T 110 <b>and</b>	Introduction to AutoCAD <b>and</b>	(4)
D T 112	Introduction to KeyCreator	(4) 7-8
D T 101 <b>or</b>	Technical Drafting <b>or</b>	(7)
D T 101.1 <b>and</b>	Drafting Fundamentals <b>and</b>	(4)
D T 101.2	Machine Drafting 1	(3) 7
D T 102 <b>or</b>	Descriptive Geometry <b>or</b>	(7)
D T 102.1 <b>and</b>	Descriptive Geometry <b>and</b>	(4)
D T 102.2	Machine Drafting 2	(3) 7
D T 105 <b>or</b>	Design Drafting Careers <b>or</b>	
Tech 100	Careers for the New Millennium	2
D T 113 <b>or</b>	Introduction to SolidWorks <b>or</b>	
D T 236	Introduction to Inventor	4
D T 115	Geometric Dimensioning and Tolerancing	4
D T 131	Mechanical Drafting (CADD)	7
D T 135	3-D CADD/CAM	7
D T 145	Structural Drafting-Steel	4
D T 151	Technical Illustration	7
D T 231	Mechanical Design (CADD)	7
D T 232	Drafting and Design Projects (CADD)	7
D T 237	Advanced 3-D CADD/CAM	4
#Engl 109 <b>or</b>	Writing for Trades and Professional/	

	Technical Degrees <b>or</b>	
Engl 128	Research Writing: Science/ Engineering/Business	5
Engr& 214 <b>or</b>	Statics <b>or</b>	
I E 204	Statics and Strengths	5
I E 189	Basic Metallurgy 4	
Phys& 114 <b>or</b>	General Physics 1 with Lab <b>or</b>	
Phys& 221	Engineering Physics 1 with Lab	5
<b>#Ten credits from the following Math courses:</b>		10
Math 116T	Technical Math 2	(5)
Math 117T	Technical Math 3	(5)
Math& 141	Precalculus 1	(5)
Math& 142	Precalculus 2	(5)
Math& 151	Calculus I	(5)
Math& 152	Calculus II	(5)

**Suggested Electives:**

*Students must choose from the following courses to total 120 credits:*

Coop 171	Work Experience Seminar	(1)
D T 113	Introduction to SolidWorks	(4)
D T 175	Drafting Work Experience	(4-6)
D T 177-179	Drafting Work Experience 1-3	(3 ea)
D T 180-182	Leadership Skills 1-3	(1 ea)
D T 199 or 299	Independent Study-Drafting 1 or 2	(1-5 ea)
D T 200	ADDA Certification Preparation	(2)
D T 210	Advanced AutoCAD Development 1	(4)
D T 236	Introduction to Inventor	(4)
D T 238	Intermediate Inventor	(3)
D T 277-279	Drafting Work Experience 4-6	(3 ea)
Engr 106	Introduction to Engineering Problems	(3)
Indus 102.1	Welding Survey 1	(3)
Mfg	Any Manufacturing class	(10)

# Satisfies general education requirements.

## Mechanical Design Technology

### Associate in Applied Science Degree

120 Credits

Mechanical designers and technicians assist engineers in industry and require a very broad technological background. Students develop proficiency in board drawing and computer-aided drafting. Students prepare drawings for manufacturing and fabrication. The American National Standards Institute (ANSI) and the American Society of Mechanical Engineers (ASME) drafting and design standards will be taught and reinforced as students prepare drawings in both 2-D and 3-D using AutoCAD, KeyCreator, and Mastercam applications software. Throughout this course of study, students use sketches, notes, technical literature, and personal research to complete assignments. Students complete related credits in the areas of manufacturing and engineering.

For additional information, see the course description listed under Design Technology.

Students can also earn an Associate in Applied Science-Transfer degree (AAS-T) in Mechanical Design Technology.

Dept./No.	Course Title	Credits
<b>#Cmst 100 or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst &220	Public Speaking	5
D T 100 <b>or</b>	Introduction to CADD/CAM <b>or</b>	(7)
D T 110 <b>and</b>	Introduction to AutoCAD <b>and</b>	(4)
D T 112	Introduction to KeyCreator	(4) 7-8
D T 101 <b>or</b>	Technical Drafting <b>or</b>	(7)
D T 101.1 <b>and</b>	Drafting Fundamentals <b>and</b>	(4)
D T 101.2	Machine Drafting 1	(3) 7
D T 102 <b>or</b>	Descriptive Geometry <b>or</b>	(7)
D T 102.1 <b>and</b>	Descriptive Geometry <b>and</b>	(4)
D T 102.2	Machine Drafting 2	(3) 7
D T 105 <b>or</b>	Design Drafting Careers <b>or</b>	
Tech 100	Careers for the New Millennium	2
D T 113 <b>or</b>	Introduction to SolidWorks <b>or</b>	
D T 236	Introduction to Inventor	4
D T 115	Geometric Dimensioning and Tolerancing	4
D T 131	Mechanical Drafting (CADD)	7
D T 135	3-D CADD/CAM	7
D T 151	Technical Illustration	7
D T 145	Structural Drafting-Steel	5
D T 231	Mechanical Design (CADD)	7
D T 232	Drafting and Design Projects (CADD)	7
D T 237	Advanced 3-D CADD/CAM	4
<b>#Engl 109 or</b>	Writing for Trades and Professional/ Technical Degrees <b>or</b>	
Engl 128	Research Writing: Science/Engineering/ Business	5
I E 189	Basic Metallurgy	4
Engr& 214 <b>or</b>	Statics <b>or</b>	
I E 204	Statics and Strengths	5
Phys& 114 <b>or</b>	General Physics I with Lab <b>or</b>	
Phys& 221	Engineering Physics I with Lab	5

**#Ten credits from the following Math courses: 10**

Math& 141	Precalculus I	(5)
Math& 142	Precalculus II	(5)
Math 116T	Technical Math 2	(5)
Math 117T	Technical Math 3	(5)
Math& 151	Calculus I	(5)
Math& 152	Calculus II	(5)

**Suggested Electives:**

*Select from the following courses to total 120 credits:*

Coop 171	Work Experience Seminar	(1)
D T 113	Introduction to SolidWorks	(4)
D T 175	Drafting Work Experience	(4-6)
D T 177-179	Drafting Work Experience 1-3	(3 ea)
D T 180-182	Leadership Skills 1-3	(1 ea)
D T 199 <b>or</b> 299	Independent Study-Drafting 1 <b>or</b> 2	(1-5 ea)
D T 200	ADDA Certification Preparation	(2)
D T 210	Advanced AutoCAD Development 1	(4)
D T 236	Introduction to Inventor	(4)
D T 238	Intermediate Inventor	(3)
D T 277-279	Drafting Work Experience 4-6	(3 ea)
Engr 106	Introduction to Engineering Problems	(3)
Indus 102.1	Welding Survey 1	(3)
Mfg	Any Manufacturing class	(10)

#Satisfies related instruction requirements.

## EARLY CHILDHOOD EDUCATION (ECE)

**Contacts:** Diana Holz, ext. 4334      Leslie Kessler, ext. 4555  
 dholz@greenriver.edu      lkessler@greenriver.edu

### Early Childhood Education and Diversity Studies

Associate in Applied Science- Transfer (AAS-T)  
 90-91 Credits

This Associate in Applied Science-Transfer (AAS-T) is a dual purpose degree built upon the technical courses required for job preparation. It includes college-level general education courses, enabling the student to transfer to a select number of baccalaureate institutions. Programs that offer this degree option will have articulated a transfer agreement with specific universities.

Students completing the AAS-T Early Childhood Education and Diversity Studies degree will also earn an Early Childhood Education certificate and a separate certificate in Diversity Studies. The completion of the degree and certificate program prepares graduates to seek employment in child care centers, Head Start, family child care homes, cooperative and private preschools, children’s homes, institutions and other programs serving children from birth through 8 years of age. This curriculum provides meaningful instruction for parents, foster parents, and persons working with young children as instructional aides or paraeducators. Diversity Studies encompasses the knowledge, attitudes and skills necessary for students to understand power relations; to function responsibly in a diverse, global society; and to gain a critical awareness of the social construction of race, ethnicity, gender, class, sexual orientation, disability, culture, religion and age in local, national and global contexts.

**Basic Requirements:**

- Completion of 90 applicable college level quarter credit hours.
- GRCC cumulative GPA must be a minimum of 2.00 (Note: A higher admissions GPA may be required at the receiving institutions).
- Transfer credits with less than a “D” grade are not counted to satisfy a graduation requirement.
- At least 30 of the 90 quarter credits for a degree must be completed in residence at GRCC.

Dept./No.	Course Title	Credits
<b>Basic Skills Requirements:</b>		15
#Engl& 101	English Composition I	(5)
#Cmst& 220	Public Speaking	(5)
#Math	Completion of Math course for which Math 097 or higher is a prerequisite	(5)
<b>Lab Science Requirement: Select 5-6 credits from the following:</b>		5-6
Biol &100	Survey of Biology	(5)
Biol 103	Introduction to Botany	(5)
Chem& 121	Introduction to Chemistry	(5)

Chem& 131	Introduction to Organic Chemistry and Biochemistry	(5)
Chem& 140	General Chemistry Prep with Lab	(6)
Chem& 161	General Chemistry with Lab I	(6)
Chem& 162	General Chemistry with Lab II	(6)
Chem& 163	General Chemistry with Lab III	(6)
Chem& 261	Organic Chemistry with Lab I	(6)
Chem& 262	Organic Chemistry with Lab II	(6)
Chem& 263	Organic Chemistry with Lab III	(6)
Geol &101	Introduction to Physical Geology	(5)
Geol 206	Earth History	(5)
Geol& 208	Geology of Pacific Northwest	(5)
Phys& 110	Concepts of the Physical World	(5)
Phys& 114	General Physics 1 with Lab	(5)
Phys& 115	General Physics 2 with Lab	(5)
Phys& 116	General Physics 3 with Lab	(5)
Phys 154	Physics for the Life Sciences 1	(5)
Phys 155	Physics for the Life Sciences 2	(5)
Phys 156	Physics for the Life Sciences 3	(5)
Phys& 221	Engineering Physics 1 with Lab	(5)
Phys& 222	Engineering Physics 2 with Lab	(5)
Phys& 223	Engineering Physics 3 with Lab	(5)

**Diversity Studies Requirements** 25

**Required Course:**

*Select at least one of the following courses (5 credits)*

#Ames 100	Introduction to Ethnic and Minority Studies	(5)
Engl 247	American Ethnic Literature	(5)
Phil 238	Introduction to the Philosophy of Human Rights	(5)

**Additional Courses:** 25

*Select from the following courses to total 20 credits:*

Ames 150	Race and Ethnicity in the Pacific	(5)
Anth& 206	Cultural Anthropology	(5)
Anth& 210	Indians of North America	(5)
CJ 220	Multicultural Diversity in Criminal Justice	(5)
Engl 160	Literature By and About Women	(5)
Engl 161	Cultures of Desire	(5)
Engl 163	The Poetics of Rap and Hip Hop	(5)
Engl 165	Introduction to World Myth	(5)
Engl 168	Introduction to Irish Literature	(5)
Engl 248	African American Literature	(5)
Engl 249	U.S. Latino Literature	(5)
Engl& 256	World Literature III: 19 <sup>th</sup> -21 <sup>st</sup> Century	(5)
Engl 257	Non-Western World Literature	(5)
Film 121	Contemporary American Movies	(5)
Geog& 200	Human Geography	(5)
Hist 103	The Modern World	(5)
Hist& 215	Women in United States History	(5)
Hist 224	African-American History	(5)
Hist 226	Asian-American History	(5)
Hist 228	Latinos in the United States	(5)
Hist 233	History of Latin America	(5)
Human 190	Latin American Film	(5)
Human 224	Women and World Religions	(5)
Phil 206	Gender and Philosophy	(5)
Pols& 204	Comparative Government	(5)

Soc 205	Sociology of Disability	(5)
Soc 220	Sex and Gender in Society	(5)
Span 221	Spanish IV	(5)
Span 222	Spanish V	(5)
Span 223	Spanish VI	(5)

Educ 130	Guidance and Discipline	3
Educ& 115	Child Development	5
Educ& 204	Exceptional Child	5
Educ 240	Multicultural/Anti-Bias Issues in Education	3-5
#Engl& 101	English Composition I	5

**Early Childhood Education Core Requirements:** 45  
 Select one or more of the ECE certificates with any ECE/Edec/ Educ class over the 100 level to make up 45 credits.  
 (Must include Educ 240 Multicultural/antibias Issues in Education [5 credits] and 12 credits of practicum.)

Select twelve (12) credits from the following practicum classes: 12

#ECE 103	Early Childhood Education Practicum 1	(3)
ECE 103.1	Child Development Associate Practicum 1	(3)
#ECE 104	Early Childhood Education Practicum 2	(3)
ECE 104.1	Child Development Associate Practicum 2	(3)
ECE 181	Montessori Practicum 1	(4)
ECE 182	Montessori Practicum 2	(4)
#ECE 214	Early Childhood Education Practicum 3	(3)
#ECE 215	Early Childhood Education Practicum 4	(3)
#ECE 260	CDA Performance Documentation	(5)
ECE 265	Supervised Montessori Teaching	(4)
Educ 210	Assisting Practicum	(6)

- Early Childhood Education, Certificate of Proficiency, 44 credits
- Early Childhood Education, Assistant Teacher, Certificate of Proficiency, 27-28 credits
- Early Childhood Education, Child Development Associate (CDA), Certificate of Proficiency, 20 credits
- Early Childhood Education, Instructional Paraeducator, Certificate of Proficiency, 44 credits
- Early Childhood Education, Montessori Teaching, Certificate of Proficiency, 34 credits

# Satisfies general education requirements.

*Electives or Areas of Specialization* 15  
 Any ECE, Edec or Educ class numbered 100 or higher.

#Satisfies related instruction requirements

## Early Childhood Education

### Associate in Applied Arts Degree

97-100 Credits

This degree program prepares students for a career in Early Childhood Education. The completion of the degree or certificate program prepares graduates to seek employment in child care centers, Head Start, family child care homes, cooperative and private preschools, children's homes, institutions and other programs serving children from birth through 8 years of age. This curriculum provides meaningful instruction for parents, foster parents and persons working with young children as instructional aides or paraeducators. Cultural relevancy is integrated into each course.

Students may specialize in one or more areas of emphasis and may enter this program at the beginning of any quarter.

Dept./No.	Course Title	Credits
#B A 145 or Bus E 110	Business Computation or Business Math Applications or Any Acomp 100 or Math course 100 or higher	3-5
Cmst&220	Public Speaking	5
ECE 101	Introduction to Early Childhood Education	5
ECE 140	Health, Safety and Nutrition	3
ECE 151	Language and Literacy	3
ECE 152	Multicultural Books	2
ECE 155	Exploring Science and Math P-3	5
ECE 160	Art for Children	3
ECE 175	Music and Movement Activities	3
ECE 205	Learning Environments	3
ECE 235	Child, Family and Community Relationship	3
ECE 243	Creative Teaching of the Young Child	5
ECE 250	Early Childhood Education Final Practicum	3
Educ 112	Technology in Education	3

## GEOGRAPHIC INFORMATION SYSTEM (GIS)

**Contact:** Sabah Jabbouri, ext. 4854  
[Sjabbouri@greenriver.edu](mailto:Sjabbouri@greenriver.edu)

## Geographic Information Systems

### Associate in Applied Science Degree

101-110 Credits

Geographic Information Systems (GIS) are software applications designed to support decision-making, site-selection, spatial analysis and cartography (map making). This technology is widely used by industry and government to support applications such as urban growth management, natural resources/conservation and utilities management. The GIS program prepares students for employment as a GIS technician and analysts. Graduates are employed by a wide variety of government agencies, utilities, private businesses and nonprofit organizations.

Dept./No.	Course Title	Credits
<b>FIRST YEAR</b>		
<b>Fall Quarter</b>		
GIS 104	Introduction to Geospatial Technology	3
GIS 121	Introduction to Geographic Information Systems	5



#Math 115T or Math 116T or Math& 141 or Math 147	Technical Algebra/Trigonometry 1 or Technical Math 2 or Precalculus I or Finite Math for Business and Social Science	5
Natrs 172 or Natrs 286	Computer Applications Overview or Natural Resources Business Principles	4-5

**Winter Quarter**

#Engl& 101 or Engl 109 or  Engl 128	English Composition I or Writing for Trades and Professional/ Technical Degrees or Research Writing: Science/Engineering/Business	5
Geog 120 or Natrs 270	Introduction to Physical Geography or Streams and Wetland Technology	5
GIS 141	Spatial Statistics	3
GIS 260	Cartography Based-GIS	5

**Spring Quarter**

GIS 120	GIS Modules Analyst	5
IT 201	Fundamental Database Design	5
Electives	Any course	5-10

**SECOND YEAR**

**Fall Quarter**

D T 110	Introduction to AutoCAD	4
GIS 250	Data and Spatial Database Design	5
Natrs 117	Aerial Photo Uses and Ground Based Mapping	2
Electives	Any course	4

**Winter Quarter**

#Cmst& 210 or Cmst& 220	Interpersonal Communication or Public Speaking	5
GIS 255	Introduction to GIS Programming	5
GIS 291	GIS Project Planning	5
Coop 171 or Natrs 290	Work Experience Seminar or Internship Seminar	1

**Spring Quarter**

GIS 177-179	GIS Work Experience	8
GIS 270	GIS in the Field	5
GIS 292	GIS Project	5-8

#Satisfies related instruction requirements.

## Geographic Information Systems

### Certificate of Proficiency

44 Credits

This certificate program is an intensive nine to twelve month program. It is designed for anyone without GIS background who wants to pursue GIS as a new career or for those pursuing GIS careers in government, industry, utilities, planning, municipal services, health or business. This program accepts new students each fall quarter. Students with previous GIS training and/or experience may be admitted beginning in winter or spring quarter.

Dept./No.	Course Title	Credits
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**Fall Quarter**

GIS 104	Introduction to Geospatial Technology	3
GIS 121	Introduction to GIS	5
GIS 250	Data and Spatial Database Design	5
Natrs 117	Aerial Photography Uses and Ground-Based Mapping	5

**Winter Quarter**

GIS 141	Spatial Statistics	3
GIS 202	GIS Fundamentals and Theory	5
GIS 260	Cartography Based-GIS	5
GIS 291	GIS Project Planning	2

**Spring Quarter**

GIS 220	GIS Modules Analyst	5
GIS 270	GIS in the Field	5
GIS 292	GIS Project	4

To enhance student's preparation for employment, an internship is highly recommended:

GIS 177-179 and Coop 171	GIS Work Experience 1-3 and Work Experience Seminar	8 1
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## INFORMATION TECHNOLOGY (IT)

**Contact:** Alan Carter, ext. 4630  
[Acarter@greenriver.edu](mailto:Acarter@greenriver.edu)

### Computer Support Specialist

Associate in Applied Science-Transfer Degree (AAS-T)  
90 Credits

This degree program prepares students for entry-level employment in a variety of IT positions, such as: PC repair technician, computer support technician, technical support specialist, and systems administrator.

Students in this degree program receive foundational training in a broad range of help desk and computer systems administration subjects, resulting in a balanced, well-rounded knowledge of information technology. In addition to these specialized courses, students learn key interpersonal communication skills sought by employers, and complete a minimum of 264 hours of help-desk work experience.

Computer support technicians troubleshoot hardware, software, and operating system problems reported by end users, often over the telephone. Technical support specialists install, configure, update, troubleshoot, and repair computer hardware, software, operating systems, and peripheral devices. System administrators install, support, and maintain an organization's network servers and directory services infrastructure.

Dept./No.	Course Title	Credits
<b>General Education Requirements:</b>		
Bus& 101	Introduction to Business	5
Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communication or Public Speaking or Small Group Communication	5

Engl& 101	English Composition I	5
Math& 107 <b>or</b>	Math in Society <b>or</b>	
Math 108 <b>or</b>	Contemporary Math for Information Technology <b>or</b>	
Math& 141 <b>or</b>	Precalculus I <b>or</b>	
Math& 142 <b>or</b>	Precalculus II <b>or</b>	
Math 147 <b>or</b>	Finite Math for Business and Social Science <b>or</b>	
Math& 148 <b>or</b>	Business Calculus <b>or</b>	
Math& 151 <b>or</b>	Calculus I <b>or</b>	
Math 256	Statistics for Business and Social Science	5

**Core Requirements:**

*Keyboarding	30 wpm (5 minute-typing test)	
Bus E 100	Fundamentals of Computers	5
Bus E 132	Business Communication Applications	5
Bus E 266	Inside Microsoft Office	5
IT 101	Introduction to Computer Science	5
IT 102 <b>or</b>	Programming I for Information Professionals <b>or</b>	
IT 121 <b>or</b>	Introduction to HTML <b>or</b>	
Bus E 184	Internet Basic and Web Design	5
** IT 114 <b>or</b>	PC Repair Technician <b>or</b>	
Comp TIA	A+ Certification	0-7
IT 116	PC Support Technician 3 (Windows)	5
IT 131	Network Infrastructure Fundamentals	5
IT 135	Introduction to Network Security	5
IT 141	Customer Service and Work Environment for IT Professionals	4
IT 160	Microsoft Windows (Current version) Server Implementation	5
IT 240	Manage MS Windows (Current version) Network Environment	5

**Practical Experience:**

<i>Nine credits from the following courses:</i>		9
IT 175	Student Assistant (0-4)	
IT 178	Help Desk Work Experience (5-9)	

**Electives:**

Any course numbered 100 or higher in the college catalog 0-10

\*Keyboarding/typing skills may be demonstrated by passing a 5-minute typing test at 30 wpm with 5 or less errors using the proper typing techniques.

\*\*Elective credits are only required if students submit a CompTIA A+ certification in place of IT 114.

**Note:** Students who wish to transfer should meet with an academic advisor to ensure they take the appropriate classes to meet the transfer requirements.

## Networking

### Associate in Applied Science-Transfer Degree (AAS-T) 109-121 Credits

The degree program prepares students for entry-level employment in a variety of IT positions, such as, PC repair technician, help-desk

technician, technical support specialist, network technician, and network or computer systems administrator.

Students receive foundational training in a broad range of networking and computer systems administration subjects, resulting in a balanced, well-rounded knowledge of information technology. Students also complete four courses on key networking topics: Introduction to Networking, Managing Cisco Routers and Switches, Managing a Microsoft Windows Network Environment, and Implementing and Securing Wireless Networks (or Implementing and Managing Microsoft Exchange). In addition to these specialized courses, students learn key interpersonal communication skills sought by employers and complete a minimum of 90 hours of information assurance-related work experience.

Help-desk technicians troubleshoot hardware, software, and operating system problems reported by end users, often over the telephone. Technical support specialists install, configure, update, troubleshoot, and repair computer hardware, software, operating systems, and peripheral devices. Network technicians and administrators install, support, and maintain an organization's network infrastructure. They also troubleshoot problems and monitor the network to ensure that performance and availability standards are met. System administrators install, support, and maintain an organization's network servers and directory services infrastructure. Applications) 5

<u>Dept./No.</u>	<u>Course Title</u>	<u>Credits</u>
<b>General Education Requirements:</b>		
Bus& 101	Introduction to Business	5
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/ Business	5
Math& 107 <b>or</b>	Math in Society <b>or</b>	
Math 108 <b>or</b>	Contemporary Math for Information Technology <b>or</b>	
Math& 141 <b>or</b>	Precalculus1 <b>or</b>	
Math& 142 <b>or</b>	Precalculus 2 <b>or</b>	
Math 147 <b>or</b>	Finite Math for Business and Social Science <b>or</b>	
Math& 148 <b>or</b>	Business Calculus <b>or</b>	
Math& 151 <b>or</b>	Calculus I <b>or</b>	
Math 256 <b>or</b>	Statistics for Business and Social Science <b>or</b> Eligible for Math& 142 <b>or</b> higher	0-5

**Note:** Students wishing to transfer to Central Washington University should take Math 147 and one of the following: (Math& 141, Math& 142, Math& 107, Math& 151 or Math& 148). Students who wish to transfer should meet with an academic advisor to ensure they take the appropriate classes to meet the transfer requirements.

**Core Requirements**

*Keyboarding	30 wpm (5 minute-typing test)	
IT 114 <b>or</b>	PC Repair Technician <b>or</b>	
Comp TIA	A+ Certification	0-7
Bus E 266 <b>or</b>	Inside Microsoft Office <b>or</b>	
IT 116	PC Support Technician 3	5
IT 131	Network Infrastructure Fundamentals	5
IT 132	Structured Cabling	2

IT 135	Introduction to Network Security	5
IT 141	Customer Service and Work Environment for IT Professionals	4
IT 145	Using Microsoft Project (Current Version)	5
IT 160	Microsoft Windows (Current version) Server Implementation	5
IT 190	Linux Administration	5
Bus E 184 or CS& 141 or IT 102 or IT 121 or IT 225	Internet Basic and Web Design or Computer Science I Java or Programming I for Information Professionals or Introduction to HTML or Shell Scripting for Windows	5
IT 201 or IT 252	Fundamental Database Design or MS SQL Server Administration	5
IT 210	Managing Cisco Routers and Switches	5
IT 216	Implementing Firewalls	5
IT 240	Manage MS Windows (Current version) Network Environment	5
IT 245	Implementing and Administering Directory Services	5
IT 248	Implementing and Securing Microsoft Applications Services	5
IT 250	Implement and Manage MS Exchange (Current version)	5
IT 285	Implementing and Securing Wireless Networks	5

**Practical Experience:** *Eight credits from the following courses:* 8

IT 175	Student Assistant	(0-3)
IT 178	Help Desk Work Experience	(0-7)
IT 181	Network Management Work Experience	(0-7)

### Systems

#### Associate in Applied Science-Transfer Degree (AAS-T) 90 Credits

This degree program prepares students for transfer to a university to complete a bachelor's degree in an IT related field. In addition, the degree program prepares students for entry-level employment in a variety of IT positions, such as PC repair technician, help-desk technician, technical support specialist, network technician, and network or computer systems administrator.

Students in this degree program receive foundational training in a broad range of networking and computer systems administration subjects resulting in a balanced, well-rounded knowledge of information technology. Students complete three courses on key networking topics: Introduction to Networking, Managing Cisco Routers and Switches, and Implementing Firewalls. In addition to these specialized courses, students learn key interpersonal communication skills sought by employers and complete a minimum of 120 hours of information technology-related work experience.

Help-desk technicians troubleshoot hardware, software, and operating system problems end users report (usually via telephone.) Technical support specialists install, configure, update, troubleshoot, and repair computer hardware, software, operating systems, and peripheral devices. Network technicians and administrators install, support, and

maintain an organization's network infrastructure. Students learn to troubleshoot problems and monitor the network to ensure the system meets performance and availability standards. System administrators install, support, and maintain an organization's network servers and directory services infrastructure.

Dept./No.	Course Title	Credits
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**General Education Requirements**

Bus& 101	Introduction to Business	5
Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communication or Public Speaking or Small Group Communication	5
Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/ Business	5
Math& 142 or	Precalculus II or Any Math class numbered 148 or above	5
Phil& 101	Introduction to Philosophy	5
Psyc& 100 or Soc& 101	General Psychology or Introduction to Sociology	5

**Note:** *Students who wish to transfer should meet with an academic advisor to ensure they take the appropriate classes to meet the transfer requirements for the university to which they intend to transfer.*

**Core Requirements**

*Keyboarding	30 wpm (5 minute-typing test)	
CS& 141	Java I	5
IT 102	Programming I for Information Professionals	
IT 114 or Comp TIA	PC Repair Technician or A+ Certification	0-7
IT 131	Networking Infrastructure Fundamentals	5
IT 135	Introduction to Network Security	5
IT 141	Customer Service and Work Environment for IT Professionals	4
IT 160	Microsoft Windows (Current version) Server Implementation	5
IT 190	Linux Administration	5
IT 252 or IT 201	MS SQL Server Administration or Fundamental Database Design	5
IT 210 or IT 240	Managing Cisco Routers and Switches or Manage MS Windows (Current Version) Network Environment	5

**Electives:** 0-7  
Any course numbered 100 or higher that is not listed above may be used for elective credits.

**Note:** *Elective credits are only required if a Comptia A+ certification is used in place of IT 114.*

**Practical Experience:** 4

*Four credits from the following courses:*

IT 175	Student Assistant	(0-2)
IT 178	Help Desk Work Experience	(0-4)
IT 181	Network Management Work Experience	(0-4)

\*Keyboarding/typing skills may be demonstrated by passing a 5-minute typing test at 30 wpm with 5 or less errors using the proper typing techniques

## Help Desk Support Technician

### Certificate of Proficiency

44 Credits

This certificate program prepares students for entry-level employment as a help-desk technician or technical support specialist.

Help-desk technicians troubleshoot hardware, software, and operating system problems reported by end users, often over the telephone. Technical support specialists install, configure, update, troubleshoot, and repair computer hardware, software, operating systems, and peripheral devices.

Key topics in this certificate program include: PC support, networking, user support, and Microsoft Windows Server or Linux administration. In addition to technical knowledge and skills, this program focuses on the key interpersonal communication skills sought by employers. Students in this program also gain real-world help desk work experience.

Students can earn an Associate in Applied Science-Transfer degree (AAS-T) in Computer Support Specialist.

Dept./No.	Course Title	Credits
Bus E 132	Business Communication Applications	5
Bus E 266	Inside Microsoft Office	5
IT 101 <b>or</b> Bus E 100	Introduction to Computer Science <b>or</b> Fundamentals of Computers	5
IT 114	PC Repair Technician	7
IT 116	PC Support Technician (Windows Application)	3
IT 131	Network Infrastructure Fundamentals	5
IT 141	Customer Service and Work Environment For IT Professionals	4
IT 160	Microsoft Windows (Current version) Server Implementation	5
IT 178	Help Desk Work Experience	3

## LEGAL ADMINISTRATIVE ASSISTANT (BUS E)

**Contacts:** Tonya McCabe, ext. 4783  
[Tmccabe@greenriver.edu](mailto:Tmccabe@greenriver.edu)  
Lea Ann Simpson, ext. 4393  
[lsimpson@greenriver.edu](mailto:lsimpson@greenriver.edu)  
Julie Slettvet, ext. 4687  
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M. J. Lockemy, ext. 4375  
[mlockemy@greenriver.edu](mailto:mlockemy@greenriver.edu)

## Legal Administrative Assistant

### Associate in Applied Arts Degree

97-102 Credits

This degree program provides students an opportunity to develop essential business skills in their area of interest, as well as to offer a comprehensive general education. Placement in courses depends on prior education and experience. Students in this program must complete all required classes with a grade of 2.0 or higher. This program meets the college's related instruction requirements for the Associate in Applied Arts degree. Students may enter this program at the beginning of any quarter.

Dept./No.	Course Title	Credits
Activity	Any course under the AA degree Lifetime Fitness/Wellness/Activity area	1+
Bus& 201	Business Law and the Regulation of Business	5
Bus E 100	Fundamentals of Computers	5
*Bus E 102	Intermediate Keyboarding	5
Bus E 103	Advanced Keyboarding	5
Bus E 109	Legal Terminology	3
#Bus E 110	Business Math Applications	5
Bus E 112 <b>or</b> Bus E 255	Beginning Word <b>or</b> Advanced Word	5
Bus E 121	Legal Machine Transcription 1	5
Bus E 129	Legal Machine Transcription 2	5
Bus E 130	Business Correspondence	5
Bus E 132	Business Communication Applications	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 177	Business Education Work Experience 1	3
Bus E 201	Legal Production Keyboarding	5
Bus E 235	Legal Office Procedures	4
Bus E 250	Office Relations and Procedures	5
Bus E 266	Inside Microsoft Office	5
#Cmst 100 <b>or</b> Cmst& 210 <b>or</b> Cmst& 220 <b>or</b> Cmst& 230	Fundamentals of Oral Communication <b>or</b> Interpersonal Communication <b>or</b> Public Speaking <b>or</b> Small Group Communication	5
Coop 171	Work Experience Seminar	1
Pols& 200	Introduction to Law and Commerce	5
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS score) <b>or</b> Completion of Read 094	0-5

*To enhance the student's preparation for future employment, we recommend the following:*

Acct 110 <b>or</b> Acct& 201 <b>or</b> Bus E 090	Practical Financial Accounting 1 <b>or</b> Principles of Accounting I <b>or</b> Office Accounting	5
Bus& 101 <b>or</b> Bus 164	Introduction to Business <b>or</b> Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	5
Bus E 107 <b>and/or</b> Bus E 108	Typing Speed and Accuracy 1 <b>and/or</b> Typing Speed and Accuracy 2	4-8
Bus E 111	Personal Computing	3
Bus E 115	Professional Image Building	1
Bus E 162 <b>or</b>	Introduction to Excel <b>or</b>	

Bus E 163	Advanced Excel	5
Bus E 175	Instructor Assistant	1-5
Bus E 178-179	Business Education Work Experience 2-3	2-10
Bus E 184	Internet and Basic Web Design	5
Bus E 185	Introduction to Microsoft Access	5
Bus E 214	Introduction to Information Security	5
Bus E 255	Advanced Word	5
Engl 105	Grammar and Usage	5
Psyc& 100	General Psychology	5
Soc& 101	Introduction to Sociology	5

*\*Credit by advanced placement may be granted in typing/keyboarding after departmental review of prior training.*

*#Satisfies related instruction requirements.*

*°Qualifies as AAA and AA-DTA activity credit.*

*Note: Students may choose the advanced computer applications course as an alternative to the introductory application course requirement such as Bus E 255 in place of Bus E 112.*

## NATURAL RESOURCES (NATRS)

**Contacts:** Dick Hopkins, ext. 4509      Rob Sjogren, ext. 4582  
[Dhopkins@greenriver.edu](mailto:Dhopkins@greenriver.edu)      [rsjogren@greenriver.edu](mailto:rsjogren@greenriver.edu)

### Natural Resources – Forestry Associate in Applied Science Degree 124 Credits

This degree program prepares graduates to work in a variety of outdoor careers. The growing awareness of water quality, wetland protection, reforestation, and environmentally sensitive timber harvest requires the services of technicians with a broad knowledge base. People who are trained to measure and sample the forest, its wildlife, streams and wetlands will enhance their employment opportunities. Wildlife biologists and professional foresters need technicians to efficiently produce accurate data. Park managers need knowledgeable personnel to perform maintenance duties and interpret wildland ecology for the public. Wildland firefighters are needed with current certificates of knowledge and skills.

Students may enter these professional/technical programs at the beginning of any quarter: Natural Resources with emphasis in forestry technology, and specialties in Natural Resources-GIS, Park Management, Water Quality, and Wildland Fire.

Completion of high school algebra and trigonometry courses or equivalent is recommended before beginning this program.

Students can also earn an Associate in Pre-Professional degree in natural resources.

Dept./No.	Course Title	Credits
<b>FIRST YEAR</b>		
<b>Summer Quarter</b>		
#Cmst& 220	Public Speaking	5
#Engl& 101	English Composition I	5
<b>Fall Quarter</b>		
Engl 128	Research Writing: Science/ Engineering/Business	5
Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
<b>Winter Quarter</b>		
Natrs 114	Chainsaw Operation and Maintenance	1
Natrs 161	Wildlife Habitat Management	5
#Natrs 180	Natural Resources Measurements	7
Natrs 270	Stream and Wetland Ecology	5
<b>Spring Quarter</b>		
Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Air Photo Interpretation and Remote Sensing	5
Natrs 184	Shrub and Wildflower Identification	5
P E 113	Group Dynamics Activities (taken concurrently with Natrs 181)	1
<b>SECOND YEAR</b>		
<b>Fall Quarter</b>		
GIS 192	GIS for Natural Resources	5
Natrs 205	Wildland Recreation	4
Natrs 285	Forest Protection	5
Natrs 292	Resource Sampling and Appraisal	8
<b>Winter Quarter</b>		
Natrs 210	Introduction to Soils	5
Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis	5
<b>Spring Quarter</b>		
#Natrs 286	Natural Resources Business Principles	5
*Natrs 294.1	Natural Resources Internship 1	4
*Natrs 294.2	Natural Resources Internship 2	4
*Natrs 294.3	Natural Resources Internship 3	3
*Natrs 294.4	Natural Resources Internship 4	3
<b>To enhance the student's preparation for future employment, the following are recommended:</b>		
Avia 123	Aviation Weather	(5)
Engr 106	Introduction to Engineering Problems	(3)
GIS	Any GIS class	(2-5)
HI Ed 190	Standard First Aid/CPR	(3)
Natrs 130	Wildland Firefighter Training	(4)
Natrs 134	Intermediate Wildland Fire Behavior	(3)
Natrs 162	Biology and Conservation of Birds	(3)
Natrs 198-199	Independent Study-Natural Resources 1-2	(1-5)
Natrs 297-299	Independent Study-Natural Resources 4-6	(1-5)

St Sk 110 College Success Strategies (5)

*\*Complete NATRS 294.1, 294.2, 294.3 and 294.4 during summer quarter if needed.*

*#Satisfies related instruction requirements*

**Note:** *Students may enter the Natural Resources program in any quarter, however many Natural Resources courses are only offered one time each year. Correct sequencing is important!*

## Geographic Information Systems Option

Associate in Applied Science Degree  
125 Credits

This degree option prepares graduates to work outside collecting data using electronic equipment such as Global Positioning Systems (GPS) or ArcPad, laser range-finders, and data-loggers. Students will also work inside at a computer, downloading the data collected into databases to produce Geographic Information systems (GIS) computer-generated maps for public and private entities.

Students may enter the Natural Resources program in any quarter, however many Natural Resources courses are only offered one time each year. Correct sequencing is important!

Dept./No	Course Title	Credits
<b>As soon as possible, or mix into schedule:</b>		
#Cmst& 220	Public Speaking	5
#Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/ Engineering/Business	5
<b>FIRST YEAR</b>		
<b>Fall Quarter</b>		
GIS 121	Introduction to GIS	5
Natrs 100	Introduction to Natural Resources	5
#Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
<b>Winter Quarter</b>		
GIS 260	Cartography-Based GIS	5
#Natrs 180	Natural Resources Measurements	7
Natrs 270	Stream and Wetland Ecology	5
<b>Spring Quarter</b>		
GIS 220	GIS Modules Analyst	5
Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Aerial Photo Interpretation and Remote Sensing	5
P E 113	Group Dynamics Activities (taken concurrently with NATRS 181)	1
<b>SECOND YEAR</b>		
<b>Fall Quarter</b>		
GIS 192	GIS for Natural Resources	5
GIS 250	Data and Spatial Database Design	5
Natrs 285	Forest Protection	5
Natrs 292	Resource Sampling and Appraisal	8

### Winter Quarter

GIS 202	GIS Fundamentals and Theory	5
GIS 291	GIS Project Planning	2
Natrs 290	Internship Seminar	1

### Spring Quarter

GIS 270	GIS in the Field 1	5
Natrs 286	Natural Resources Business Principles	5

### Capstone (spring and/or summer)

Natrs 294.1	Natural Resources Internship 1	4
Natrs 294.2	Natural Resources Internship 2	4
Natrs 294.3	Natural Resources Internship 3	3
Natrs 294.4	Natural Resources Internship 4	3

**To enhance the student's preparation for future employment, the following are recommended:**

Any GIS	(1-8)
Any Natrs	(1-8)
Bus E 101	Beginning Typing/Keyboarding (5)
Geog 120	Introduction to Physical Geography (5)
Natrs 114	Chainsaw Operation and Maintenance (1)
St Sk 110	College Success Strategies (5)

*#Satisfies related instruction requirements.*

## Park Management

Associate in Applied Science Degree  
121 Credits

This degree program prepares graduates to work in state, private, county, municipal, and federal parks as assistant park rangers and in associated positions. Park management includes interpreting plant and animal ecology to the general public. Rangers are responsible for constructing and maintaining trails, campgrounds, and facilities. They collect fees, explain and enforce park rules, and promote public safety.

Students may enter the Natural Resources program in any quarter, however many natural resources courses are only offered one time each year. Course sequencing is important! Complete prerequisite as early as possible.

Dept./No.	Course Title	Credits
<b>FIRST YEAR</b>		
<b>Summer Quarter</b>		
#Cmst& 220	Public Speaking	5
#Engl& 101	English Composition I	5
<b>Fall Quarter</b>		
Engl 128	Research Writing: Science/ Engineering/Business	5
Natrs 100	Introduction to Natural Resources	5
#Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
<b>Winter Quarter</b>		
Natrs 114	Chainsaw Operation and Maintenance	1

Natrs 161	Wildlife Habitat Management	5
#Natrs 180	Natural Resources Measurements	7
Natrs 270	Stream and Wetlands Ecology	5

**Spring Quarter**

Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Air Photo Interpretation and Remote Sensing	5
Natrs 184	Shrub and Wildflower Identification	5
P E 113	Group Dynamics Activity (taken concurrently with Natrs 181)	1

**SECOND YEAR**

**Fall Quarter**

Geol& 101	Introduction to Physical Geology	5
GIS 192	GIS for Natural Resources	5
Natrs 205	Wildland Recreation	4
Natrs 285	Forest Protection	5

**Winter Quarter**

Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis	5
Soc& 101	Introduction to Sociology	5

**Spring Quarter**

#Natrs 286	Natural Resources Business Principles	5
*Natrs 294.1	Natural Resources Internship 1	4
*Natrs 294.2	Natural Resources Internship 2	4
*Natrs 294.3	Natural Resources Internship 3	3
*Natrs 294.4	Natural Resources Internship 4	3

*To enhance the student's preparation for future employment, we recommend the following:*

Avia 123	Aviation Weather	(5)
Geol 200	Geological Investigation of the National Parks	(5)
Geol& 208	Geology of the Pacific Northwest	(5)
GIS	Any GIS course	(2-5)
HI Ed 190	Standard First Aid/CPR	(3)
Natrs 162	Biology and Conservation of Birds	(3)
Natrs 198-199	Independent Study-Natural Resources 1-2	(1-5)
Natrs 271	Stream and Wetland Restoration	(5)
Natrs 292	Resource Sampling and Appraisal	(8)
Natrs 298-299	Independent Study-Natural Resources 4-6	(1-5)
St Sk 110	College Success Strategies	(5)
Other	Small Engine Repair, Basic Carpentry, Plumbing, Wiring	

*Complete Natrs 294.1, 294.2, 294.3, 294.4 in summer quarter if needed.*

*#Satisfies related instruction requirements.*

**Note:** *Substitutions of required courses may be made with the department's prior approval when it is agreed that the student's suitability for employment will be enhanced. Examples include courses involving small engine repair, basic carpentry, plumbing or wiring.*

**Water Quality**  
Associate in Applied Science Degree  
121 Credits

This degree program prepares graduates to work in a variety of outdoor careers. Graduates monitor stream, lake, and wetland systems for water quality and functions of physical, biological, and chemical parameters. They identify plants and animals using taxonomic keys. They assist wetlands delineation and GPS/map their location. Graduates also apply and follow environmental regulations regarding stream and wetland protection.

Students may enter the Natural Resources program in any quarter, however many natural resources classes are only offered one time each year. Correct sequencing is important!

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
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**FIRST YEAR**

**Summer Quarter**

#Cmst& 220	Public Speaking	5
#Engl& 101	English Composition I	5

**Fall Quarter**

Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
Engl 128	Research Writing: Science/ Engineering/Business	5

**Winter Quarter**

Natrs 161	Wildlife Habitat Management	5
#Natrs 180	Natural Resources Measurements	7
Natrs 270	Stream and Wetland Ecology	5

**Spring Quarter**

Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Aerial Photo Interpretation and Remote Sensing	5
Natrs 184	Shrub and Wildflower Identification	5
P E 113	Group Dynamics Activities (taken concurrently with NATRS 181)	1

**SECOND YEAR**

**Fall Quarter**

GIS 192	GIS for Natural Resources	5
Natrs 205	Wildland Recreation	4
Natrs 272	Fish Identification and Habitat	5
Natrs 285	Forest Protection	5

**Winter Quarter**

Natrs 114	Chainsaw Operation and Maintenance	1
Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis	5

**Spring Quarter**

Natrs 271	Stream and Wetland Restoration	5
#Natrs 286	Natural Resources Business Principles	5

**Capstone**

Natrs 294.1	Natural Resources Internship 1	4
Natrs 294.2	Natural Resources Internship 2	4
Natrs 294.3	Natural Resources Internship 3	3
Natrs 294.4	Natural Resources Internship 4	3

**To enhance the student's preparation for future employment, the following are recommended:**

Any Course	Biology, Chemistry, and Geology	(5 ea)
Any Courses	GIS	(3-8)
Avia 123	Aviation Weather	(5)
Geog 120	Introduction to Physical Geography	(5)
HI Ed 190	Standard First Aid/CPR	(3)
Natrs 162	Biology and Conservation of Birds	(3)
Natrs 210	Introduction to Soils	(5)
Natrs 198, 199	Independent Study-Natural Resources 1-2	(1-5)
Natrs 292	Resource Sampling and Appraisal	(8)
Natrs 297-299	Independent Study-Natural Resources 4-6	(1-5)
St Sk 110	College Success Strategies	(5)

#Satisfies related instruction requirements.

**Note:** Substitutions of required courses may be made with the department's prior approval when it is agreed that the student's suitability for employment will be enhanced.

**Wildland Fire**

**Associate in Applied Science Degree  
118 Credits**

This degree program prepares graduates to perform fire prevention and educational activities. They serve as crew members or leaders of aerial, engine, or ground wildland fire crews.

Students may enter the Natural Resources program in any quarter, however many natural resources courses are only offered one time each year. Correct sequencing is important!

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
<b>FIRST YEAR</b>		
<b>Summer Quarter</b>		
#Engl& 101	English Composition I	5
<b>FIRST YEAR</b>		
<b>Fall Quarter</b>		
Engl 128	Research Writing: Science/Engineering/ Business	5
Natrs 100	Introduction to Natural Resources	5
#Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
<b>Winter Quarter</b>		
Natrs 114	Chainsaw Operation and Maintenance	1
Natrs 161	Wildlife Habitat Management	5
#Natrs 180	Natural Resources Measurements	7
Natrs 270	Stream and Wetland Ecology	5

**Spring Quarter**

Natrs 130	Wildland Firefighter Training I-100 and S-130/190	4
Natrs 134	Intermediate Wildland Fire Behavior	3
Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Air Photo Interpret and Remote Sensing	5
#P E 113	Group Dynamic Activities (taken concurrently with Natrs 181)	1

**Summer Quarter:** Wildfire experience required

**SECOND YEAR**

**Fall Quarter**

#Cmst& 220	Public Speaking	5
GIS 192	GIS for Natural Resources	5
Natrs 285	Forest Protection	5

**Winter Quarter**

Natrs 131	Advanced Wildland Firefighter Training S-131	1
Natrs 132	Wildland Firefighter Crew Boss S-230	2
Natrs 133	Wildland Firefighter Engine Boss S-231	1
Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis	5

**Spring Quarter**

Natrs 184	Shrub and Wildflower Identification	5
#Natrs 286	Natural Resources Business Principles	5

**Capstone**

Natrs 294.1	Natural Resources Internship 1	4
Natrs 294.2	Natural Resources Internship 2	4
Natrs 294.3	Natural Resources Internship 3	3
Natrs 294.4	Natural Resources Internship 4	3

**To enhance the student's preparation for future employment, the following are recommended:**

Avia 123	Aviation Weather	(5)
Bus E 100	Fundamentals of Computers	(5)
Engr 106	Introduction to Engineering Problems	(3)
GIS	Any GIS course	(2-5)
HI Ed 190	Standard First Aid/CPR	(3)
Natrs 162	Biology and Conservation of Birds	(3)
Natrs 205	Wildland Recreation	(4)
Natrs 198, 199,	Independent Study-Natural Resources 1-2	(1-5)
Natrs 292	Resource Sampling and Appraisal	(8)
Natrs 297-299	Independent Study-Natural Resources 4-6	(1-5)
Phys&114	General Physics I with Lab	(5)
St Sk 110	College Success Strategies	(5)

#Satisfies related instruction requirements.

**Note:** Substitutions of required courses may be made with the department's prior approval when it is agreed that the student's suitability for employment will be enhanced.



## NURSING (NURSE)

**Contact:** Byron Ford, ext. 2641  
[bford@greenriver.edu](mailto:bford@greenriver.edu)

Mariena Mears, ext. 4654  
[mmears@greenriver.edu](mailto:mmears@greenriver.edu)

Information Session Sign up: [www.greenriver.edu/info-sessions](http://www.greenriver.edu/info-sessions)

### Practical Nursing Certificate 100-105 Credits

The certificate program prepares a student to provide safe and efficient nursing care. Health facilities such as hospitals, nursing homes, clinics and public health nursing services employ practical nurses under the supervision of a registered nurse or physician.

A multimedia system of individualized instruction, offering stated objectives with a wide range of learning experiences to accomplish each objective is provided.

The Practical Nursing program is a 100 to 105-credit program in which students must demonstrate academic proficiency by completing basic curriculum requirements prior to entry into the core sequence of nursing classes. A high school diploma or GED is required, and a physical exam is required after entrance into the core program. A minimum grade of 2.5 is required in each nursing and supporting course. Evidence of academic proficiency is established by completion of each of the following curriculum requirements with a 2.5 grade or higher.

The following courses are required *prior* to applying into the Practical Nursing program:

- AP 103 and 104, or Biol& 241 and Biol& 242 (10 credits);
- Read 094 or 104, Reading Mastery (5 credits), or college-level reading ability as measured by COMPASS assessment;
- Math 097, Intermediate Algebra or Math& 107, Math in Society (5 credits).
- H Sci 150, Human Life Span, Growth, & Development (5 credits) or Psyc& 200, Lifespan Psychology (5 credits)
- Nutr& 101, Nutrition (5 credits)
- Communication Studies (5 credits). Choose from Cmst& 210, &220, or &230.
- English Composition (5 credits). Choose from Engl& 101, Engl 109, 126, 127, or 128.

The student is expected to provide his/her own transportation to off-site clinical facilities. In addition to paying for tuition and books, the student is required to purchase a uniform, pin, white shoes, watch, bandage, scissors, and liability insurance. For additional information about a required nursing orientation and the application procedure, contact the Health Science curriculum advisor in Career and Advising Center, at ext. 2639.

Upon successful completion of the required credits, the student will earn a certificate in Practical Nursing. The graduate will be eligible to take the licensing examination and upon passing, practice as a Licensed Practical Nurse. ~~Application for LPN licensure asks information regarding illegal practice and drug/alcohol and addiction conditions that may inhibit nursing practice. For additional questions on this issue, contact the Washington State Nursing Care Quality Assurance Commission. The program is fully accredited by the Washington State Nursing Care Quality Assurance Commission and the Northwest Association of Schools and Colleges.~~

Dept./No.	Course Title	Credits
<b>Fall Quarter</b>		
Nurse 101	Introduction to Computers in Nursing	1
Nurse 102	Introduction to Clinical Pharmacology in Nursing	3
Nurse 104	Nursing 1 Fundamentals	6
Nurse 105	Community Lab 1	4
#Nurse 116	Nursing Issues and Delivery Systems	3
<b>Winter Quarter</b>		
Nurse 103	Drug Therapy and the Nursing Process	2
Nurse 106	Nursing 2	8
Nurse 107	Nursing 2 Community Lab 2	8
<b>Spring Quarter</b>		
Nurse 109	Nursing 3 Community Lab 3	8
Nurse 110	Nursing 3	8
<b>Summer Quarter</b>		
#Nurse 112	Nursing 4	
Nurse 113	Nursing 4 Community Lab 4	6
Nurse 114	Principles and Practice of Intravenous Therapy	2
<b>Curriculum Requirements:</b>		
Nutr& 101	Nutrition	5
H Sci 150 <b>or</b>	Human Life Span, Growth and Development <b>or</b>	
Psyc& 200	Lifespan Psychology	5
AP 103 <b>and</b>	Essentials of Human Anatomy- Physiology	
AP 104 <b>or</b>	1 and 2 <b>or</b>	
Biol& 241 <b>and</b>	Human Anatomy-Physiology 1 <b>and</b> 2	10
Biol& 242		
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
#Engl 109 <b>or</b>	Writing for Trades and Professional/ Technical Degrees <b>or</b>	
Engl& 101 <b>or</b>	English Composition I <b>or</b>	
Engl 126 <b>or</b>	Writing: Humanities <b>or</b>	
Engl 127 <b>or</b>	Writing: Social Sciences <b>or</b>	
Engl 128	Research Writing: Science/Engineering/ Business	5
#Math 097 <b>or</b>	Intermediate Algebra <b>or</b>	
Math& 107	Math in Society	5
Read 094	Reading Improvement	0-5

# Satisfies related instruction requirements.

## Nurse Assistant Certificate Program

Certificate of Proficiency  
12 Credits

This certificate program prepares graduates to develop concepts and knowledge necessary to provide an entry level nurse assistant care.

Students in this certificate program must possess the following prior to enrollment in the program:

- High school graduate or GED
- Washington State Patrol clearance check
- Nelson Denny 10<sup>th</sup> Grade Reading Level
- TB Skin test (two-step method)
- Hepatitis vaccination series
- Medical and Liability insurance
- Uniform supplies: gait belt, dictionary, watch with 2<sup>nd</sup> hand, and white shoes

Dept./No.	Course Title	Credits
Nrs A 100	Nurse Assistant Theory	6
Nrs A 111	Nurse Assistant Skill	4
Nrs A 112	Introduction to Nursing Care and Studies	2

## WATER SUPPLY TECHNOLOGY (WST)

**Water Supply Technology**  
Associate in Applied Science Degree  
90 Credits

This degree program prepares graduates for positions in municipal drinking water distribution and treatment facilities. Along with appropriate operating experience, this degree provides a foundation for positions with responsibilities beyond the entry level. The requirements build on those for the Water Distribution Technology Certificate of Proficiency, which should generally be completed first.

Dept./No.	Course Title	Credits
#Bus 166	Human Relations and Work Readiness	5
Biol& 100 or	Survey of Biology or	
Geol& 101	Introduction to Physical Geology	5
Bus E 100 or	Fundamentals of Computers or	
Bus E 112 or	Beginning Word or	
Bus E 118 or	Basics for Online Education or	
Bus E 150 or	Introduction to Windows or	
Bus E 184	Internet and Basic Web Design	5
Chem& 161	General Chemistry with Lab I	6
Chem& 162	General Chemistry with Lab II	6
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
#Engl& 101	English Composition I	
Engl 128	Research Writing: Science/Engineering/ Business	5

#Math& 141 or	Precalculus I or	
Math& 107	Math in Society	5
Wtech 181	Water Hydraulics	3
Wtech 182	Pumps and Pumping Systems	3
Wtech 183	Utility Worker Safety	3
Wtech 184	Disinfection and Chemical Feed Systems	3
Wtech 187	Drawings and Manuals	3
Wtech 188	Water and Wastewater Electrical	3
Wtech 191	Pre-Employment Seminar	3
WST 177	Water Cooperative Education	8
WST 180	Water Distribution	3
WST 183	Water Sources	1
WST 184	Water Regulations	2
WST 185	Water Treatment 1	3
WST 186	Water Treatment 2	3
WST 188	Water Laboratory	2

#Satisfies related instruction requirement.

## Water Distribution Technology

Certificate of Proficiency  
31-41 Credits

This certificate program prepares graduates for entry level positions operating and maintaining public drinking water distribution systems. The program is designed to start any quarter, depending upon student composition, computation and computing skills; please contact an advisor for skill assessment information.

Dept./No.	Course Title	Credits
Bus E 100 or	Fundamentals of Computers or	
Bus E 112 or	Beginning Word or	
Bus E 118 or	Basics for Online Education or	
Bus E 150 or	Introduction to Windows or	
Bus E 184	Internet and Basic Web Design	5
*Engl 081	Fundamentals of Written Communication	0-5
**Math 072	Elementary Algebra	0-5
Wtech 181	Water Hydraulics	3
Wtech 182	Pumps and Pumping Systems	3
Wtech 183	Utility Worker Safety	3
Wtech 184	Disinfection and Chemical Feed Systems	3
Wtech 187	Drawings and Manuals	3
Wtech 188	Water and Wastewater Electrical	3
WST 180	Water Distribution	3
WST 183	Water Sources	1
WST 184	Water Regulations	2
WST 188	Water Laboratory	2

\*Not required if eligible for Engl 100 or higher.

\*\*Not required if eligible for Math 097 or higher.

## Wastewater Technology

Associate in Applied Science Degree  
90 Credits

This degree program prepares graduates for positions in municipal wastewater collection systems and treatment facilities. Along with

appropriate operating experience, this degree provides a foundation for positions with responsibilities beyond the entry level. The requirements build on those for the Municipal Wastewater Treatment Technology Certificate of Proficiency, which should generally be completed first.

Dept./No.	Course Title	Credits
#Bus 166	Human Relations and Work Readiness	5
Bio&I 100 <b>or</b>	Survey of Biology <b>or</b>	
Env S 204	Natural Science and the Environment	5
Bus E 100 <b>or</b>	Fundamentals of Computers <b>or</b>	
Bus E 112 <b>or</b>	Beginning Word <b>or</b>	
Bus E 118 <b>or</b>	Basics for Online Education <b>or</b>	
Bus E 150 <b>or</b>	Introduction to Windows <b>or</b>	
Bus E 184	Internet and Basic Web Design	5
Chem& 161	General Chemistry with Lab I	6
Chem& 162	General Chemistry with Lab II	6
#Cmst 100 <b>or</b>	Fund of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst 234	Small Group Communication	5
#Engl& 101	English Composition I	5
Engl 128	Research Writing: Science, Engineering and Business	5
#Math& 141 <b>or</b>	Precalculus I <b>or</b>	
Math& 107	Math in Society	5
Wtech 181	Water Hydraulics	3
Wtech 182	Pumps and Pumping Systems	3
Wtech 183	Utility Worker Safety	3
Wtech 184	Disinfection and Chemical Feed Systems	3
Wtech 187	Drawings and Manuals	3
Wtech 188	Water and Wastewater Electrical	3
Wtech 191	Pre-Employment Seminar	3
WWT 177	Water Cooperative Education	11
WWT 180	Water Distribution	3
WWT 185	Water Treatment 1	3
WWT 186	Water Treatment 2	3
WWT 188	Water Laboratory 2	2

Satisfies related instruction requirement.

## Municipal Wastewater Treatment Technology

### Certificate of Proficiency

31-41 Credits

This certificate program prepares graduates for entry-level positions in municipal wastewater treatment facilities. The program is designed for a fall quarter start, depending upon student composition, computation and computing skills; please contact an advisor for skill assessment information.

Dept./No.	Course Title	Credits
Bus E 100 <b>or</b>	Fundamentals of Computers <b>or</b>	
Bus E 112 <b>or</b>	Beginning Word <b>or</b>	
Bus E 118 <b>or</b>	Basics for Online Education <b>or</b>	
Bus E 150 <b>or</b>	Introduction to Windows <b>or</b>	
Bus E 184	Internet & Basic Web Design	5
*Engl 081	Fundamentals of Written Communication	0-5

**Math 072	Elementary Algebra	0-5
Wtech 181	Water Hydraulics	3
Wtech 182	Pumps and Pumping Systems	3
Wtech 183	Utility Worker Safety	3
Wtech 184	Disinfection & Chemical Feed Systems	3
Wtech 187	Drawings and Manuals	3
Wtech 188	Water and Wastewater Electrical	3
WWT 185	Municipal Water Treatment 1	3
WWT 186	Municipal Water Treatment 2	3
WWT 188	Wastewater Laboratory	2

\*Not required if eligible for Engl 100 or above.

\*\*Not required if eligible for Math 097 or higher.

# DEGREES AND CERTIFICATES PROGRAMS

## OTHER LEARNING OPTIONS

### High School Diploma

Green River Community College offers a complete schedule of courses that meets the requirements for a high school diploma as defined by the Office of the State Superintendent of Public Instruction (OSPI) and the Washington Board of Education. Students complete the required classes to earn a Washington State Diploma. Students can pursue high school credits in one of two ways:

- Students earn credits at Green River and transfer them back to their high school, for a high school awarded diploma. Contact your high school counselor for approved courses.
- Students earn credits at Green River and apply those credits along with their high school credits to a GRCC awarded high school diploma.

The GRCC high school diploma program is an alternative way to complete high school. Although it is designed for adult students, 19 years and older, students 16-18 can participate. Successful students meet state and Green River requirements for graduation and are issued an official State of Washington high school diploma. Students must earn a minimum of 1 credit at Green River to earn a high school diploma. Reduced tuition may be available for those students 19 years or older.

Green River Community College will grant a high school diploma if requested by a Running Start student or a student over 21 years of age who completes any Associates degree (per SHB 1758).

### Application Process

**Prospective students should follow the steps outlined below:**

*(International students should apply for high school completion through the International Programs application process)*

1. Submit a completed Green River Application for Admission form to the Admissions Office in the LSC Building, (253) 333-2500. (\$20 application fee)
2. If age 16, 17, or 18, submit a completed High School Release form from the high school you would normally be attending. This is a Green River form that high schools typically have. A letter from school district personnel on official school stationary can be substituted.
3. Obtain and submit "official" copies of all previous high school/college transcripts. Submit sealed transcripts to:

Green River Community College  
Enrollment Services/HSC  
12401 SE 320th Street  
Auburn, WA 98092-3622

4. Complete Green River's assessment (COMPASS) prior to enrolling in classes. Call (253) 833-9111, ext. 2650, for a recorded message regarding testing hours. There is a fee of \$20.00 for the COMPASS, and picture identification is required.
5. Depending on a student's assessment/placement scores, college level classes may be taken to fulfill both high school and college degree requirements at the same time.

There is more information on the Green River Community College Website, at:  
<http://www.greenriver.edu/edplanning/hscomp.htm>.

### Registration

To complete the registration process, prospective students should meet with Green River Educational Planner to discuss course selection based on the official transcript evaluation completed by Enrollment Services (call ext. 2641 for an appointment).

### High School Diploma Course Articulation

The high school diploma course articulation policy was created to ensure that students are not penalized by the differences in specific requirements imposed by individual districts/campuses within the general guidelines of the Washington State High School Diploma. Its intent is to provide a pathway for acceptance of credit between Washington State high schools and Green River Community College and to limit the need for duplication of credits previously earned.

### Policy

If a student transfers an individual course (from a Washington State high school or community and technical college) that meets a specific state high school requirement category at the sending institution, that course is considered to have met that requirement at GRCC, even if this course does not have an exact equivalent. It is the student's responsibility to initiate the articulation process. We recommend that incoming students work with a Green River Educational Planner to gather appropriate documentation from the high school as needed. This policy is in accordance with OSPI guidelines for acceptance of credit and Washington State High School Diploma requirements.

### High School Diploma Requirements:

See schedule of courses (chart) on page 54.

Washington State high school graduation requirements should be confirmed with the Office of Superintendent of Public Instruction (OSPI) and/or Board of Education. Rules of State Board for Community and Technical Colleges may also apply. Generally, high school graduation requirements are categorized in four areas:

1. Complete a minimum number of credits in core content areas (outlined on page 54).
2. Complete a Culminating Project (GRCC has integrated this into several courses).
3. Complete a High School and Beyond plan (GRCC has integrated this into several courses)  
<http://www.k12.wa.us/graduationrequirements/Requirement-highschoolbeyond.aspx>
4. Earn a Certificate of Academic Achievement (CAA) by passing state tests: WASL (Washington Assessment of Student Learning) and/or HSPE (High School Proficiency Exam)
  - Beginning with the 09-10 school year the WASL was replaced by the HSPE.
  - If a student previously passed the WASL, they do not need to retake the HSPE.
  - GRCC is not a WASL/HSPE test site but students can connect with their local school district for instructions on taking the test at a high school.

Green River currently participates in one approved CAA Option – AP and College Admissions Test Scores. This option allows students who meet state determined minimum test area scores to substitute those scores for the WASL/HSPE test. Washington state resident students must take the WASL/HSPE once after 10<sup>th</sup> grade before accessing a CAA option. Out of state/country transfers or students from private schools within the state do not need to take the WASL/HSPE first. To access this option, students must also have a score verification form filled out and sent to OSPI.

#### College admissions test scores:

	SAT	ACT
Math	470	19
Reading	350	13
Writing	380	15

score of 3 or higher is earned:

Math	Calculus or Statistics examination
Reading	English Literature and Composition, Macroeconomics, Microeconomics, Psychology, United States History, World History, United States Government and Politics, or Comparative Government and Politics examination
Writing	English Language and Composition examination

Transfer students from out of state or out of country who transfer in during their junior or senior year may: use previous state’s high school exit exam, or the exam used to meet federal “No Child Left Behind” testing requirements instead of the WASL, or use any of the CAA Options without first taking the WASL/HSPE.

If the student did not pass the math WASL/HSPE or an alternative assessment, they need additional math credits, as outlined below:

Class of 2008	Classes of 2009 to 2012
Earn 5 more math credits at Math 097 or higher	Earn 10 more math credits, 5 of which are at Math 097 or higher.

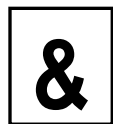
## High School Diploma - Schedule of Classes

Washington State Course Requirements	High School Credits (1 HS credit = 5 GRCC Credits)	Green River Community College Requirements for students entering high school classes in Fall 2004 or later	GRCC Credits (1 HS credit = 5 GRCC credits)
English	3	Reading/Literature: Reading: (5 credits) 084, 094, 104 or Engl &112, &113, &114, 115, 160, 161, 163, 165, 168, 180, 181, 183, 185, &220, &226, &227, &228, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257 Writing: (5 credits) Engl 081 or 100, &101, 109, 126, 127, 128, &236, &237, 239 Communication Studies: (5 credits) Cmst 100 or higher	15
Math	2-3*(see advisor; # of credits depends on incoming year)	10-15 credits of Math with 5 of those credits at Math 097 or higher.	10-15
Science	2	10 credits of science with 5 of those credits being any lab science course that meets the lab science requirement (see AA degree for details). Suggested lab courses without prerequisites: Biol& 100, 103, 110; Geol& 101; Ocea& 101; Phys 107	10
U. S. History	1	Select 5-6 credits from the following: Hist 021 (3-5 credits) and/or Hist 022 (3-5 credits) or Hist 135, &136, &137, 220 (5 credits each)	5-6
Civics and Government	0.5	Select 3-5 credits from the following: HSC 025 (3-5 credits) or POLS& 202 (5 credits)	3-5
Washington State History	0.5	Select 5 credits from the following: Hist 024 or POLS& 202 (5 credits each)	5
Contemporary World History, Geography and World Problems	1	Select 5 credits from the following: Ames 100; Econ 100; Geog& 200, 201; Hist 103, 231, 250; Phil 102; &101, &203 or &204; or Soc& 101	5
Fitness/Health	2	A minimum of 3 credits is required from List A. The remaining credits may be taken from any combination of List A and List B: List A: Health – HI Ed 150, P E 101, 102, 103, 111, 131, 149, 160, 165, 169 List B: Fitness – HI Ed 190, P E 101, 102, 103, 107, 108, 109, 110, 111, 112, 113, 114, 115, 117, 118, 119, 121, 122, 124, 125, 128, 129, 131, 132, 134, 136, 137, 138, 139, 140, 141, 143, 144, 147, 148, 149, 150, 158, 160, 165, 169, 193, 201, 202, 207, 210, 211, 212, 215, 216, 224, 231, 234, 236, 237, 248, 251, 253, 258	10
Occupational Health	1	5 credits from any Professional/Technical course with the following prefixes: AAM, Acct, Abody, Atech, Avia, B A, Bus, Bus E, Carp, Crpt, CJ, CS, D T, Ece, Edec, Educ, Engr, GIS, H Sci, H Hsc, Indus, I E, IT, Journ, Mfg, Natrs, Nrs A, Nurse, O T, Photo, PTA, R Estate, Tech, Weld, WST, WWT, Wtech	5
Arts	1	5 credits in any Fine Arts or Performing Arts course with the following prefixes: Art, Dance, Drma, Musc, Photo	5
Culminating Project and Educational Plan		HSC 040 or Engr 100 or Tech 100 or other alternative approved by the High School Completion committee. Note: <i>Any of the courses above may also count as an elective if not used to satisfy any other credit requirement.</i>	
Electives	5	Up to 25 credits, as needed to total 95 credits. Any GRCC credit, except BASIC or ESOL	22-25
<b>Total Credits</b>	<b>*19-20</b>		<b>*95</b>

Washington State high school graduation requirements are subject to change based on the student's incoming year. Be sure to talk about your specific plan of study with an advisor after receiving your official transcript evaluation from Enrollment Services.

# COMMON COURSE NUMBERING CROSSWALK

**Note:** This list includes common course numbering and other related course changes such as collisions and department/division prefix changes.



*GRCC course numbers are changing. Make sure you don't take the same class twice.*

Common Course Numbering (CCN) is a new program that makes commonly shared courses among Washington community and technical colleges have the same course number and title.

Recently, faculty from Washington state community and technical colleges have met to discuss the similarities in courses, and their course content. These courses, once identified, were then given the same course numbers and titles. For those students who transfer courses from one Washington state community college to another, this will make that translation for coursework much easier. These courses are identified by an "&" within the department abbreviation. For example: PSYCH 100 now becomes PSYC& 100.

If you have taken GRCC courses with the previous numbers, your transferability will not be affected. These courses will transfer just as they would before.

If a course is not labeled as a common course, it does not mean that transferability is limited. The course will be considered as transferable using the same course content requirements as before. It is always important that you check the course descriptions at [www.greenriver.edu/catalog/courses/default.aspx](http://www.greenriver.edu/catalog/courses/default.aspx) for all course transferability information.

GRCC renamed and renumbered 265 courses during the CCN project. Be careful that you do not take the same course twice.

Contact your advisor or visit our web site for more information.

OLD COURSE NUMBER	OLD COURSE TITLE	OLD CREDITS	NEW COURSE NUMBER	NEW COURSE TITLE	NEW CREDITS
<b>ACCOUNTING</b>			<b>ACCOUNTING</b>		
B A 110	Practical Financial Accounting 1	5	ACCT 110		5
B A 111	Practical Financial Accounting 2	5	ACCT 111		5
B A 112	Quickbooks for Accounting	5	ACCT 112		5
B A 113	Practical Accounting	5	ACCT 113		5
B A 118	Individual Taxation	5	ACCT 118		5
B A 121	Payroll Accounting	5	ACCT 121		5
B A 130.1	Quickbooks: Introduction and Customer Satisfaction	1	ACCT 130.1		1
B A 130.2	Quickbooks: Vendor Transactions and Banking	1	ACCT 130.2		1
B A 130.3	Quickbooks: Create and Invent a Company	1	ACCT 130.3		1
B A 130.4	Quickbooks: Payroll and Balance Sheet	1	ACCT 130.4		1
B A 130.5	Quickbooks: Estimates, Job Costing, Time	1	ACCT 130.5		1
B A 175	Instructor Aide	5	ACCT 175	Accounting Instructor Aide	5
B A 210	Financial Accounting 1	5	ACCT& 201	Principles of Accounting I	5
B A 220	Financial Accounting 2	5	ACCT& 202	Principles of Accounting II	5
B A 230	Managerial Accounting	5	ACCT& 203	Principles of Accounting III	5
<b>ANTHROPOLOGY</b>			<b>ANTHROPOLOGY</b>		
ANTHR 100	Introduction to Anthropology	5	ANTH& 100	Survey of Anthropology	5
ANTHR 194	Special Topics	5	ANTH 194	Special Topics - Anthropology 1	5
ANTH 203	Principles of Archeology	5	ANTH& 204	Archeology	5
ANTHR 201	Biological Anthropology	5	ANTH& 205	Biological Anthropology	5
ANTHR 202	Sociocultural Anthropology	5	ANTH& 206	Cultural Anthropology	5
ANTHR 204	Introduction to Linguistic Anthropology	5	ANTH& 207	Linguistic Anthropology	5
ANTHR 205	Introduction to Medical Anthropology	5	ANTH& 235	Cross-Cultural Medicine	5
ANTHR 206	Introduction to Anthropology-Religion	5	ANTH& 234	Religion and Culture	5
ANTHR 210	Indians of North America	5	ANTH& 210	Indians of North America	5
ANTHR 215	NW Coast Indians: Nuu-Cha Nulth	5	ANTH 211	Nuu-Chah-Nulth Indians	5
ANTHR 220	Northwest Coast Indians	5	ANTH& 216	Northwest Coast Indians	5
ANTHR 265	Forensic Anthropology	5	ANTH& 236	Forensic Anthropology	5

OLD COURSE NUMBER	OLD COURSE TITLE	OLD CREDITS	NEW COURSE NUMBER	NEW COURSE TITLE	NEW CREDITS
ANTHR 273	Field Archeology	10	ANTH 273		10
ANTHR 294	Special Topics (Varies)	5	ANTH 294	Special Topics - Anthropology 2	5
ANTHR 298	Independent Study-Anthropology	5	ANTH 298	Independent Study - Anthropology 1	5
ANTHR 299	Independent Study-Anthropology	5	ANTH 299	Independent Study - Anthropology 2	5
ANATOMY-PHYSIOLOGY			ANATOMY-PHYSIOLOGY		
AP 205	Human Anatomy and Physiology 1	5	BIOL& 241		5
AP 206	Human Anatomy and Physiology 2	5	BIOL& 242		5
ART			ART		
ART 100	Introduction to Art	5	ART& 100	Art Appreciation	5
ASTRONOMY			ASTRONOMY		
ASTRO 100	Introduction to General Astronomy	5	ASTR& 100	Survey of Astronomy	5
ASTRO 101	General Astronomy	5	ASTR& 101	Introduction to Astronomy	5
BIOLOGY			BIOLOGY		
BIOL 100	Introductory Biology	5	BIOL& 100	Survey of Biology	5
			BIOL& 160	General Biology with Lab	5
BIOL 201	General Biology	6	BIOL& 211	Majors Cellular	6
BIOL 202	Animal Biology	6	BIOL& 212	Majors Animal	6
BIOL 203	Plant Biology	6	BIOL& 213	Majors Plant	6
BIOL 210	Microbiology	5	BIOL& 260		5
BUSINESS			BUSINESS		
B A 101	Business, Government and Society	5	BUS& 101	Introduction to Business	5
B A 200	Introduction to Law	5	POLS& 200	Introduction to Law	5
B A 205	Business Law	5	BUS& 201	Business Law	5
COMPUTER SCIENCE			COMPUTER SCIENCE		
C SCI 142	C++ Programming	5	CS& 131	Computer Science I C++	5
C SCI 143	C++ Data Structures	5	CS 132		5
C SCI 144	Java 1	5	CS& 141	Computer Science I Java	5
C SCI 145	Java 2	5	CS 145		5
CHEMISTRY			CHEMISTRY		
CHEM 101	Survey of General Chemistry	5	CHEM& 121	Introduction to Chemistry	6
CHEM 102	Survey Organic Chemistry and Biochemistry	5	CHEM& 131	Introduction to Organic/Biochemistry	6
CHEM 105	Introduction to General Chemistry	5	CHEM& 140	General Chemistry Prep w/Lab	5
CHEM 140	General Chemistry 1	6	CHEM& 161	General Chemistry w/Lab I	6
CHEM 150	General Chemistry 2	6	CHEM& 162	General Chemistry w/Lab II	6
CHEM 160	General Chemistry 3	6	CHEM& 163	General Chemistry w/Lab III	6
CHEM 235	Organic Chemistry	6	CHEM& 261	Organic Chemistry w/Lab I	6
CHEM 236	Organic Chemistry	6	CHEM& 262	Organic Chemistry w/Lab II	6
CHEM 237	Organic Chemistry	6	CHEM& 263	Organic Chemistry w/Lab III	6
CHINESE			CHINESE		
CHIN 101	Elementary Chinese 1	5	CHIN& 121	Chinese I	5
CHIN 102	Elementary Chinese 2	5	CHIN& 122	Chinese II	5
CHIN 103	Elementary Chinese 3	5	CHIN& 123	Chinese III	5
COMMUNICATION STUDIES			COMMUNICATION STUDIES		
COMM 100	Fund-Oral Communication	5	CMST 100		5
COMM 110	Interpersonal Communications	5	CMST& 210		5
COMM 177	Communication Work Experience	1-12	CMST 177	Communication Work Experience 1	1-12
COMM 178	Communication Work Experience	1-12	CMST 178	Communication Work Experience 2	1-12
COMM 179	Communication Work Experience	1-12	CMST 179	Communication Work Experience 3	1-12
COMM 194	Special Studies	5	CMST 194	Special Studies in Communications	5



OLD COURSE NUMBER	OLD COURSE TITLE	OLD CREDITS	NEW COURSE NUMBER	NEW COURSE TITLE	NEW CREDITS
COMM 212	Persuasion and Propaganda	5	CMST 212		5
COMM 215	Critical Analysis/Media	5	CMST 215		5
COMM 101	Basic Speech Communication	5	CMST& 220	Public Speaking	5
COMM 234	Small Group Leadership	5	CMST& 230	Small Group Communication	5
COMM 238	Intercultural Communication	5	CMST 238		5
COMM 245	Argumentation	5	CMST 245		5
COMM 299	Independent Study	5	CMST 299	Independent Study - Communications	5
CRIMINAL JUSTICE			CRIMINAL JUSTICE		
CRJ 100	Introduction to Criminal Justice	5	CJ& 101		5
CRJ 115	Fingerprint Science	5	CJ 115		5
CRJ 177	Cooperative Education	1-5	CJ 177	Criminal Justice Work Experience 1	5
CRJ 178	Cooperative Education	1-5	CJ 178	Criminal Justice Work Experience 2	5
CRJ 179	Cooperative Education	5	CJ 179	Criminal Justice Work Experience 3	5
CRJ 200	Individual Rights	5	CJ 200		5
CRJ 205	Criminal Evidence	5	CJ 205		5
CRJ 215	Criminology	5	CJ& 112		5
CRJ 220	Multicultural Diversity	5	CJ 220		5
CRJ 225	Criminal Law	5	CJ& 110		5
CRJ 230	Corrections	5	CJ& 105	Introduction to Corrections	5
CRJ 240	Community Oriented Policing	5	CJ 236		5
CRJ 255	Forensic Science	5	CJ& 240	Introduction Forensic Science	5
CRJ 294	Special Topics In Criminal Justice	5	CJ 294		5
CRJ 299	Independent Study	5	CJ 299	Independent Study - Criminal Justice	5
DRAMA			DRAMA		
DRAMA 102	Drama Appreciation	5	DRMA& 101	Introduction to Theatre	5
DRAMA 111	Rehearsal and Performance	5	DRMA 111	Rehearsal and Performance 1	5
DRAMA 112	Rehearsal and Performance	5	DRMA 112	Rehearsal and Performance 2	5
DRAMA 113	Rehearsal and Performance	5	DRMA 113	Rehearsal and Performance 3	5
DRAMA 141	Pop Culture In Movies and TV	5	DRMA 141		5
DRAMA 151	Acting-Living the Role	5	DRMA 151		5
DRAMA 152	Acting-Technical Aspects	5	DRMA 152		5
DRAMA 153	Acting Workshop	5	DRMA 153		5
DRAMA 298	Independent Study	5	DRMA 298	Independent Study - Drama	5
ECONOMICS			ECONOMICS		
ECON 200	Macroeconomics	5	ECON& 202	Macro Economics	5
ECON 201	Microeconomics	5	ECON& 201	Micro Economics	5
EDUCATION			EDUCATION		
EDEC 110	Child Development	5	EDUC& 115	Child Development	5
EDEC 193	The Exceptional Child	3	EDUC& 204	Exceptional Child	3
EDU 170	Introduction to Education	5	EDUC& 205	Introduction to Education w/Field Experience	5
EDU 193	Introduction to Special Education	3	EDUC 193		3
EDU 194	Education Special Topics 1	5	EDUC 194		5
EDU 195	Education Special Topics 2	5	EDUC 195		5
EDU 196	Education Special Topics 3	5	EDUC 196		5
EDU 210	Assisting Practicum	6	EDUC 210		6
EDU 240	Multicultural/Anti Bias	5	EDUC 240		5
EDU 270	Teacher Portfolio Review	1	EDUC 270		1
EDU 294	Education Special Topics 4	5	EDUC 294		5
EDU 295	Education Special Topics 5	5	EDUC 295		5

OLD COURSE NUMBER	OLD COURSE TITLE	OLD CREDITS	NEW COURSE NUMBER	NEW COURSE TITLE	NEW CREDITS
EDU 296	Education Special Topics 6	5	EDUC 296		5
ENGLISH			ENGLISH		
ENGL 102	Practical College Writing	5	ENGL 109	Writing for Trades/Professional Technology	5
ENGL 110	College Writing	5	ENGL& 101	English Composition I	5
ENGL 111	Writing: Humanities	5	ENGL 126		5
ENGL 112	Writing: Social Sciences	5	ENGL 127		5
ENGL 113	Research Writing: Science/Engineering/Business	5	ENGL 128		5
ENGL 131	Introduction to Short Fiction	5	ENGL& 112	Introduction to Fiction	5
ENGL 132	Introduction to Reading Drama	5	ENGL& 114	Introduction to Drama	5
ENGL 133	Introduction to Poetry	5	ENGL& 113	Introduction to Poetry	5
ENGL 135	Introduction to Novels	5	ENGL 115	Introduction to Novels	5
ENGL 151	Creative Writing 1	5	ENGL& 236	Creative Writing I	5
ENGL 152	Creative Writing 2	5	ENGL& 237	Creative Writing II	5
ENGL 154	Lit/Art Journalism Production	3	ENGL 239	Espial Workshop	5
ENGL 221	American Literature to 1860	5	ENGL& 244	American Literature I: American Literature to 1860	5
ENGL 222	American Literature: Civil War/WWI	5	ENGL& 245	American Literature II: Civil War to WWI	5
ENGL 223	American Literature: WWI to Present	5	ENGL& 246	American Literature III: WWI to Present	5
ENGL 224	American Ethnic Literature	5	ENGL 247		5
ENGL 225	African-American Literature	5	ENGL 248		5
ENGL 240	Introduction to Shakespeare	5	ENGL& 220		5
ENGL 244	English Literature: 7-16th Century	5	ENGL& 226	British Literature I: 7 <sup>th</sup> -16 <sup>th</sup> Century	5
ENGL 245	English Literature: 17-18th Century	5	ENGL& 227	British Literature II: 17 <sup>th</sup> -18 <sup>th</sup> Century	5
ENGL 246	English Literature: 19-21st Century	5	ENGL& 228	British Literature III: 19 <sup>th</sup> -21 <sup>st</sup> Century	5
ENGL 265	Literature of the Ancient World	5	ENGL& 254	World Literature I: Ancient World	5
ENGL 266	World Literature: 7-18th Century	5	ENGL& 255	World Literature II: 7 <sup>th</sup> to 18 <sup>th</sup> Century	5
ENGL 267	World Literature: 19-21st Century	5	ENGL& 256	World Literature III: 19 <sup>th</sup> to 21 <sup>st</sup> Cent	5
ENGL 268	Non-Western World Literature	5	ENGL 257		5
FRENCH			FRENCH		
FREN 101	Elementary French 1	5	FRCH& 121	French I	5
FREN 102	Elementary French 2	5	FRCH& 122	French II	5
FREN 103	Elementary French 3	5	FRCH& 123	French III	5
FREN 201	Intermediate French	5	FRCH& 221	French IV	5
ENGINEERING			ENGINEERING		
G E 100	Careers in Engineering	2	ENGR 100		2
G E 104	Innovations in Design	5	ENGR& 104	Introduction to Design	5
G E 106	Introduction to Engineering Problems	3	ENGR 106		3
G E 112	Statics	5	ENGR& 214	Statics	5
G E 120	Engineering Computational Tools	2	ENGR 120		2
G E 123	Engineering Graphics and 3D Model	5	ENGR& 114	Engineering Graphics	5
G E 140	Materials Science	5	ENGR 140		5
G E 177	Engineering Work Experience	1-12	ENGR 177	Engineering Work Experience 1	1-12
G E 178	Engineering Work Experience	1-12	ENGR 178	Engineering Work Experience 2	1-12
G E 179	Engineering Work Experience	1-12	ENGR 179	Engineering Work Experience 3	1-12
G E 198	Independent Study in Computer Programming	5	ENGR 198		5
G E 199	Independent Study in Design Project	5	ENGR 199		5
G E 235	Fund Electrical Circuits	5	ENGR& 204	Electrical Circuits	5
G E 240	Mechanics of Materials	5	ENGR& 225		5

OLD COURSE NUMBER	OLD COURSE TITLE	OLD CREDITS	NEW COURSE NUMBER	NEW COURSE TITLE	NEW CREDITS
G E 280	Thermodynamics	5	ENGR& 224		5
G E 281	Dynamics	5	ENGR& 215		5
GEOGRAPHY			GEOGRAPHY		
GEOG 100	Introduction to Geography	5	GEOG& 100		5
GEOG 108	Introduction to Human Geography	5	GEOG& 200	Human Geography	5
GEOG 200	World Regional Geography	5	GEOG 201		5
GEOLOGY			GEOLOGY		
GEOL 101	Physical Geology	5	GEOL& 101	Introduction Physical Geology	5
GEOL 200	Geology of National Parks	5	GEOL 200	Geological Investigation of National Parks	5
GEOL 208	Geology of the Northwest	5	GEOL& 208	Geology of Pacific NW	5
GERMAN			GERMAN		
GERM 101	Elementary German	5	GERM& 121	German I	5
GERM 102	Elementary German 2	5	GERM& 122	German II	5
GERM 103	Elementary German 3	5	GERM& 123	German III	5
HISTORY			HISTORY		
HIST 200	The Pacific Northwest	5	HIST& 214	Pacific NW History	5
HIST 221	United States to 1877	5	HIST& 136	US History 1	5
HIST 222	United States 1877 to Present	5	HIST& 137	US History 2	5
HIST 225	Women In US History	5	HIST& 215		5
JAPANESE			JAPANESE		
JAPAN101	Elementary Japanese 1	5	JAPN& 121	Japanese I	5
JAPAN102	Elementary Japanese 2	5	JAPN& 122	Japanese II	5
JAPAN103	Elementary Japanese 3	5	JAPN& 123	Japanese III	5
JOURNALISM			JOURNALISM		
JOURN201	Introduction to Mass Media	5	CMST& 102	Introduction to Mass Media	5
MATHEMATICS			MATHEMATICS		
MATH 102	Pre-Calculus 1	5	MATH& 141	Precalculus 1	5
MATH 104	Pre-Calculus 2	5	MATH& 142	Precalculus 2	5
MATH 107	Contemporary Mathematics	5	MATH & 107	Math in Society	5
MATH 124	Calculus and Analytic Geometry 1	5	MATH& 151	Calculus I	5
MATH 125	Calculus and Analytic Geometry 2	5	MATH& 152	Calculus II	5
MATH 126	Calculus and Analytic Geometry 3	5	MATH& 153	Calculus III	5
MATH 156	Finite Math-Business and Social Science	5	MATH 147	Finite Math-Business and Social Science	5
MATH 157	Calculus for Business and Social Science	5	MATH& 148	Business Calculus	5
MATH 224	Intermediate Analysis	5	MATH& 254	Calculus IV	5
MUSIC			MUSIC		
MUSIC 100	Music Survey	5	MUSC& 105	Music Appreciation	5
MUSIC 101	Fundamentals of Music	5	MUSC 101		5
MUSIC 103	American Popular Music	5	MUSC 103		5
MUSIC 104	Music in World Culture	5	MUSC 104		5
MUSIC 105	Introduction to Computer Music	5	MUSC 108		5
MUSIC 106	Computer Music Notation	5	MUSC 109		5
MUSIC 107	History of Jazz	5	MUSC 107		5
MUSIC 111	Music Theory 1	3	MUSC& 131		3
MUSIC 112	Music Theory 2	3	MUSC& 132		3
MUSIC 113	Music Theory 3	3	MUSC& 133		3
MUSIC 114	Ear Training 1	2	MUSC& 121		2
MUSIC 115	Ear Training 2	2	MUSC& 122		2
MUSIC 116	Ear Training 3	2	MUSC& 123		2
MUSIC 118	Concert Choir 1	3	MUSC 118		3

OLD COURSE NUMBER	OLD COURSE TITLE	OLD CREDITS	NEW COURSE NUMBER	NEW COURSE TITLE	NEW CREDITS
MUSIC 119	Concert Choir 2	3	MUSC 119		3
MUSIC 120	Concert Choir 3	3	MUSC 120		3
MUSIC 124	Musical Rehearsal and Performance	5	MUSC 124		5
MUSIC 127	Rendezvous Chambers Singers 1	5	MUSC 127		5
MUSIC 128	Rendezvous Chambers Singers 2	5	MUSC 128		5
MUSIC 129	Rendezvous Chambers Singers 3	5	MUSC 129		5
MUSIC 130.1	Private Instruction 1	1	MUSC 130.1		1
MUSIC 130.2	Private Instruction 2	1	MUSC 130.2		1
MUSIC 130.3	Private Instruction 3	1	MUSC 130.3		1
MUSIC 132	Class Piano	2	MUSC 140	Class Piano 1	2
MUSIC 133	Class Piano	2	MUSC 141	Class Piano 2	2
MUSIC 134	Class Piano	2	MUSC 142	Class Piano 3	2
MUSIC 218	Concert Choir 4	3	MUSC 218		3
MUSIC 219	Concert Choir 5	3	MUSC 219		3
MUSIC 220	Concert Choir 6	3	MUSC 220		3
MUSIC 227	Rendezvous Chambers Singers 4	5	MUSC 227		5
MUSIC 228	Rendezvous Chambers Singers 5	5	MUSC 228		5
MUSIC 229	Rendezvous Chambers Singers 6	5	MUSC 229		5
MUSIC 230.1	Private Instruction 4	1	MUSC 230.1		1
MUSIC 230.2	Private Instruction 5	1	MUSC 230.2		1
MUSIC 230.3	Private Instruction 6	1	MUSC 230.3		1
MUSIC 251	Music Theory 4	3	MUSC& 231		3
MUSIC 252	Music Theory 5	3	MUSC& 232		3
MUSIC 254	Ear Training 4	2	MUSC& 221		2
MUSIC 255	Ear Training 5	2	MUSC& 222		2
MUSIC 298	Independent Study	5	MUSC 298	Independent Study - Music 1	5
MUSIC 299	Independent Study	5	MUSC 299	Independent Study - Music 2	5
NURSE			NURSE		
NURSE 100	Nutrition	5	NUTR& 101		5
OCEANOGRAPHY			OCEANOGRAPHY		
OCEAN 101	Survey of Oceanography	5	OCEA& 101	Introduction to Oceanography	5
POLITICAL SCIENCE			POLITICAL SCIENCE		
P SCI 100	Introduction to Politics	5	POLS& 101	Introduction Political Science	5
P SCI 194	Special Topics	5	POLS 194	Special Topics - Political Science	5
P SCI 201	Comparative Politics	5	POLS& 204	Comparative Government	5
P SCI 202	US Government and Politics	5	POLS& 202	American Government	5
P SCI 203	International Relations	5	POLS& 203		5
P SCI 204	State/Local Government Politics	5	POLS 209		5
P SCI 207	American Political Participants	5	POLS 207		5
P SCI 298	Independent Study	5	POLS 298	Independent Study - Political Science	5
PHILOSOPHY			PHILOSOPHY		
PHIL 100	Introduction to Philosophy	5	PHIL& 101	Introduction to Philosophy	5
PHIL 120	Introduction to Logic	5	PHIL& 106	Introduction to Logic	5
PHYSICS			PHYSICS		
PHYS 105	Concepts of the Physical World	5	PHYS& 110	Physics Non-Science Majors with lab	5
PHYS 105	Concepts of the Physical World	5	PHYS& 110	Physics Non-Science Major with Lab	5
PHYS 110	Introduction to College Physics	5	PHYS& 114	General Physics I with Lab	5
PHYS 111	College Physics 2	5	PHYS& 115	General Physics II with Lab	5
PHYS 112	College Physics 3	5	PHYS& 116	General Physics III with Lab	5
PHYS 201	Physics/Science/Engineering	5	PHYS& 221	Engineering Physics I with Lab	5
PHYS 202	Physics/Science/Engineering	5	PHYS& 222	Engineering Physics II with Lab	5

OLD COURSE NUMBER	OLD COURSE TITLE	OLD CREDITS	NEW COURSE NUMBER	NEW COURSE TITLE	NEW CREDITS
PHYS 203	Physics/Science/Engineering	5	PHYS& 223	Engineering Physics III with Lab	5
PHYS 208	Electric and Magnetic Fields	2	PHYS 229		2
PHYS 221	Modern Physics	3	PHYS 225		3
PSYCHOLOGY			PSYCHOLOGY		
PSYCH 100	General Psychology	5	PSYC& 100		5
PSYCH 200	Human Sexuality	5	PSYC& 180		5
PSYCH 201	Personality	5	PSYC 201		5
PSYCH 209	Fundamentals of Psychological Research	5	PSYC 209		5
PSYCH 210	Developmental Psychology	5	PSYC& 200	Lifespan Psychology	5
PSYCH 220	Fundamentals of Physical Psychology	5	PSYC 225		5
PSYCH 250	Abnormal Psychology	5	PSYC& 220		5
PSYCH 298	Independent Study	5	PSYC 298	Independent Study - Psychology 1	5
PSYCH 299	Independent Study	5	PSYC 299	Independent Study - Psychology 2	5
SOCIOLOGY			SOCIOLOGY		
SOC 110	Survey of Sociology	5	SOC& 101	Introduction to Sociology	5
SOC 201	Social Problems	5	SOC& 201		5
SPANISH			SPANISH		
SPAN 101	Elementary Spanish	5	SPAN& 121	Spanish I	5
SPAN 102	Elementary Spanish	5	SPAN& 122	Spanish II	5
SPAN 103	Elementary Spanish	5	SPAN& 123	Spanish III	5
SPAN 201	Intermediate Spanish	5	SPAN& 221	Spanish IV	5
SPAN 202	Intermediate Spanish	5	SPAN& 222	Spanish V	5
SPAN 203	Intermediate Spanish	5	SPAN& 223	Spanish VI	5

# COURSE DESCRIPTIONS

## NEW COURSES

### Aerospace and Advanced Manufacturing (AAM)

#### AAM 101 (13)

##### Principles of Precision Machining 1

Covers conventional machining, basic blueprint reading and math, health and safety, and introduction to Computer Numerical Control (CNC) machining. Coursework is divided between lab assignments, lecture and reading/workbook assignments. Students spend their time divided lecture and lab work each week with a significant amount of lab time dedicated to conventional mills and lathes. Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: Eligible for MATH 072, READ 104 and ENGL 081; or instructor's permission.

#### AAM 102 (13)

##### Principles of Precision Machining 2

Covers advanced blueprint reading skills including understanding of Geometric Dimensioning and Tolerancing (GD&T), applied math skills including geometry and trigonometry, CNC machine programming and operation. Coursework is divided between lab assignments, lecture and reading/workbook assignments. Student spends a significant portion of the lab time dedicated to conventional mills and lathes. Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: Eligible for MATH 072, READ 104 and ENGL 081; or instructor's permission.

#### AAM 103 (13)

##### Machine Maintenance 1

Covers industry and workplace safety awareness and practices in-depth. Prepares the entry level machine maintenance technician with the knowledge and skills necessary to maintain, diagnose, and repair elementary hydraulic and pneumatic systems. Introduces students to the fundamental mechanical concepts necessary for the installation, operation, and maintenance of industrial machinery. Students acquire the skills to design and interpret industrial prints

and component schematics. Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: Eligible for MATH 072, READ 104 and ENGL 081; or instructor's permission.

#### AAM 104 (13)

##### Machine Maintenance 2

Covers techniques of assembling, rigging, and installing mechanical equipment. Students learn to work with mechanical transmission devices, including procedures for installation, removal, and maintenance. Upon completion students will have an understanding of preventive, predictive, corrective, and reliability-centered maintenance. Students study the development of a comprehensive maintenance program and learn how to use a computerized maintenance management system. Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: Eligible for MATH 072, READ 104 and ENGL 081; or instructor's permission.

#### AAM 105 (7)

##### Quality Assurance 1

Helps student to select, set up and inspect machine parts, based on specifications and tolerancing standards. Students will learn to read and interpret GD&T information along with standard tolerances. Students practice set up, record measurements, and determine discrepancies in Co-Ordinate Measuring Machines (CMM). Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: Eligible for MATH 072, READ 104 and ENGL 081; or instructor's permission.

#### AAM 106 (7)

##### Quality Assurance 2

Prepares the students for the knowledge and skills required to effectively write instructions or "tie-ins". Topics include operation of mechanical lifts, knowledge of the different fasteners and allowable substitutions, use of computer for data search and input, and understanding of statistical process controls. Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: Eligible for MATH 072, READ 104; and ENGL 081; or instructor's permission.

#### AAM 107 (7)

##### Inspection 1

Prepares the students to read and interpret drawings for the inspection segment of the manufacturing industry. Includes drawing symbols, thread nomenclature, and dimension conversion: metric to inch and inch to metric, notes and title blocks, and dimensioning system. Students will get an understanding of assembly and manufacturing processes and safe working practices and emergency procedures. Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: Eligible for MATH 072, READ 104 and ENGL 081; or instructor's permission.

#### AAM 108 (7)

##### Inspection 2

Helps the student to select and set up and inspect machine parts, based on specifications and tolerancing standards. Students learn to read and interpret Geometric Dimensioning & Tolerancing (GD&T) information along with standard tolerances. Students practice set-up, record measurements and determine discrepancies with Co-ordinate Measuring Machines (CMM). Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: Eligible for MATH 072, READ 104 and ENGL 081; or instructor's permission.

### Auto Body Technology (ABODY)

#### ABODY 102 (3)

##### Introduction to Metal Fabrication

Covers skills using various tools, equipment and processes of the automotive fabrication industry. Emphasizes measuring, welding, cutting, shaping and constructing auto parts of other various projects. This is a beginner's course where students are introduced to basic skills. PREREQUISITE: Instructor's permission.

## Aviation Technology (AVIA)

### AVIA 226 (5)

#### Advanced Instrument Pilot Ground School

Provides students with information to pass the FAA instrument pilot written examination. Covers advanced instrument flight procedures and planning including radio navigation, IFR flight planning and decision-making, ATC procedures, and FAA regulations pertinent to instrument flight. FAA part 141 approved. PREREQUISITE: AVIA 111 or instructor's permission.

## Biology (BIOL)

### BIOL& 160 (5)

#### General Biology with Lab

Introduces major concepts in cell biology, including science process, cell biochemistry, cell physiology and structure, molecular biology, genetics, and evolution. Course is a prerequisite for professional health-science programs. Format includes group work in a laboratory setting. Intended for health science majors. Strongly recommend MATH 097 or higher and CHEM& 121. PREREQUISITE: ENGL& 101 with a grade of 2.0 or higher. *Satisfies a lab or natural science requirement for AA degree.*

## Communication Studies (CMST)

### CMST 222 (1-2)

#### Advanced Public Speaking Module

Offers students who have taken a beginning public speaking course. An opportunity to enhance the public speaking skills learned in their previous course by presenting at least two speeches. Students also learn skills that will enable them to coach other students wishing to improve their presentations. Course also entails a review of the principles of effective public speaking, observing coaching sessions in the GRCC Public Speaking Center, and actively coaching other students in the Public Speaking Center. Course is useful for future teachers, as well as any student whose future careers or community involvement will require delivering

presentations. PREREQUISITE: CMST 220 with a grade of 3.2 or higher; and instructor's permission.

## Drama (DRMA)

### DRMA 102 (5)

#### Contemporary American Theatre

Introduces the student to trends in American theatre beginning with the early 20th-Century and continuing to today. Course will focus on the evolution of American playwriting, the changes in the theatrical arts to include scenic, costume, lighting and sound design. Course regards drama as one of the performing arts and not as literature. *Satisfies a humanities/fine arts/English requirement for the AA degree.*

### DRMA 211 (5)

#### Rehearsal and Performance 3

Students participate in play production and performance on an intermediate level to include featured roles in plays and musicals on stage; and/or backstage as costume designer, set designer, props master, or choreographer, etc.

### DRMA 212 (5)

#### Rehearsal and Performance 4

Students participate in play production and performance on an advanced level to include leading roles in plays and musicals; or work as stage manager, costume designer, set designer, props master or choreographer, etc. PREREQUISITE: DRMA 211.

### DRMA 213 (5)

#### Rehearsal and Performance 5

Students participate in play production and performance on an advanced level to include leading roles in plays and musicals, or work as assistant director, stage manager or lead designer. PREREQUISITE: DRMA 212.

### DRMA 154 (5)

#### Improvisation 1

Offers students of all experience levels the opportunity to learn improvisational skills to supplement and enhance acting technique. Students will actively participate in theatre

games relying heavily on the technique of Viola Spolin, Paul Sills and others. *Satisfies a humanities/fine arts/English requirement for AA degree.*

### DRMA 155 (5)

#### Improvisation 2

Offers students of all experience levels the opportunity to learn improvisational skills to supplement and enhance acting technique. Students who have taken DRMA 154 will act as team leaders in exercises. Students will actively participate in theatre games relying heavily on the technique of Viola Spolin, Paul Sills and others.

### DRMA 156 (5)

#### Improvisation 8

Offers students of all experience levels the opportunity to learn improvisational skills to supplement and enhance acting technique. Students who have taken DRMA 155 will act as games facilitators and referees. Students will actively participate in theatre games relying heavily on the technique of Viola Spolin, Paul Sills and others.

## English Speakers of Other Languages (ESOL)

### ESOL 047-049 (1-5)

#### ESOL Conversation Support-Level 4-6

To provide additional support for current students in ESOL 014, 015 or 016 who need to improve their conversational skills.

PREREQUISITE: Instructor's permission. *This is a pass/no credit course.*

### ESOL 072 (1-15)

#### ESOL Intensive Writing Level 2

For ESOL Level 2 students who have much stronger speaking/listening skills than reading/writing skills for their level. It is for students who want to improve their writing skills. PREREQUISITE: Instructor's permission. *This is a pass/no credit course.*

**ESOL 073 (1-15)****ESOL Intensive Writing Level 3**

For ESOL Level 3 students who have much stronger speaking/listening skills than reading/writing skills for their level. It is for students who want to improve their writing skills. PREREQUISITE: Instructor's permission. *This is a pass/no credit course.*

**ESOL 074 (1-15)****ESOL Intensive Writing Level 4**

For ESOL Level 4 students who have much stronger speaking/listening skills than reading/writing skills for their level. It is for students who want to improve their writing skills. PREREQUISITE: Instructor's permission. *This is a pass/no credit course.*

**ESOL 091 (1-15)****Special Topics 1**

Prepares ESOL students to enter an I-BEST program. Course content varies each time it is offered. It may include English language skills for specific content areas such as Early Childhood Education, Welding, or Health Services. For ESOL students in Level 1. *This is a pass/no credit course.*

**Geographic Information Systems (GIS)****GIS 104 (3)****Introduction to Geospatial Technology**

Provides an introduction to geospatial technology including geographic information systems (GIS), remote sensing (RS), global positioning systems (GPS), and other emerging online mapping technologies. Explores the GIS profession, types of jobs in the field, required skills, and GIS programs offered at GRCC and four-year institutions. Course is designed for everyone interested in learning how to apply geospatial technology in their field of study. Covers the wide range of geospatial technology software including Google Earth, GPS, ArcGIS Explorer online, web mapping, ArcGIS desktop including ArcMap and ArcCatalog.

**GIS 192 (5)****GIS for Natural Resources**

Provides an overview with hands-on experience with ArcGIS tools and functionality in Natural Resources applications. Emphasizes the three principal components of ArcGIS: ArcMap, ArcCatalog, and ArcToolbox. Provides hands-on practical exercises using field data in various formats including shapefiles, coverages, geodatabase feature classes, and raster data. Explores how to use geospatial datasets already available and how to create, modify or build new databases, as well as how to download data from the Internet. Students create, manage, analyze, and display georeferenced datasets and finished maps. PREREQUISITE: Second year Natural Resources student completed one of these courses: GIS 102, GIS 104, NATRS 172 and MATH 072 or MATH 097; or instructor's permission.

**Humanities (HUMAN)****HUMAN 146 (5)****Introduction to Chinese Culture and Life**

Students learn about various aspects of Chinese traditional and modern culture. Key features of Chinese culture such as history, philosophy, nationalities, arts and language will be incorporated. There will also be integration of other well-known cultural aspects such as martial arts, foods and traditional medicine. Students will understand primary differences between Chinese core culture and Western culture. Students discuss the role of traditional culture in the current economic development of China. RECOMMEND: College-level reading. PREREQUISITE: Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.*

**Information Technology (IT)****IT 248 (5)****Implementing and Securing Microsoft Applications Services**

An overview of Microsoft Windows application services, including Windows Deployment Services, Hyper-V services, high availability, Remote App, Remote Desktop, Web services infrastructure, SSL Security, and

streaming media. PREREQUISITE: IT 160 or instructor's permission.

**Nursing (NURSE)****NURSE 194 (1-6)****Special Studies-Nursing**

Enables students to pursue areas of special interest in the nursing field such as gerontology, adult critical care, pediatrics, and fetal monitoring.

**NURSE 200 (4)****Nursing 5: Advanced Medical Surgical Nursing**

Advanced medical surgical nursing focuses on the application of the nursing process in the care of adults with medically complex health impairments. Nursing theory and evidenced-based concepts utilized will promote and maintain safe and effective health care with culturally diverse patients. Emphasis will be placed on the prioritization of care through collaboration with the interdisciplinary health care team, patients, and their families.

**NURSE 201 (6)****Nursing 5: Community Lab**

Community lab experience planned concurrently with NURSE 200 in a variety of health care settings. PREREQUISITE: Unencumbered Practical Nursing License and concurrent enrollment in NURSE 200 and instructor's permission. PREREQUISITE: Unencumbered Practical Nursing License and instructor's permission.

**NURSE 202 (2)****Advanced Pharmacology**

Focuses on pharmacologic principles, indications, nursing implications, and dosage calculations related to drug therapy in the care of individuals with complex health care needs. Emphasis will be placed on medications used for clients who have acute or chronic cardiovascular, oncology, or neurological conditions, and individuals with multi-system dysfunction. PREREQUISITE: Unencumbered Practical Nursing License and instructor's permission.



**NURSE 203 (2)****Transcultural and Community Nursing**

Provides students with an in-depth study of the humanistic and scientific practices in nursing. Focuses on the differences and similarities among cultures with respect to human care, health, and illness, based upon cultural values, beliefs, and practices. This knowledge will be used to provide culturally specific or culturally congruent nursing care to individuals, families, and the community. PREREQUISITE: Unencumbered Practical Nursing License and instructor's permission.

**NURSE 204 (4)****Nursing 6: Nursing of Childbearing Families**

Nursing interventions focusing on health promotion, restoration, and support to childbearing families. Focuses on the care, counseling, and education of childbearing families. Didactic and clinical learning opportunities focus on nursing practice with expectant mothers, neonates and their families. Provides the theoretical basis for the nursing management of developmental and pathological human responses related to healthy and high risk childbearing families. PREREQUISITE: Unencumbered Practical Nursing License and successful completion of NURSE 200, 201, 202, and 203; and instructor's permission.

**NURSE 205 (6)****Nursing 6: Community Lab**

Lab experience planned concurrently with NURSE 204 in campus lab and clinical settings. PREREQUISITE: Unencumbered Practical Nursing License and successful completion of NURSE 200, 201, 202, and 203; and instructor's permission.

**NURSE 206 (2)****Professionalism and Leadership in Nursing**

Focuses on current nursing issues with an emphasis on legal, ethical and political processes on professional nursing care and health care delivery. Responsibility for continued professional development is emphasized with an opportunity to explore management and leadership within an area of interest. PREREQUISITE: Unencumbered

Practical Nursing License and instructor's permission.

**NURSE 207 (4)****Nursing 7: Mental Health Nursing**

Course furthers the student's knowledge in psychiatric function and those associated disorders commonly encountered in nursing practice. Covers illness, illness prevention, and health promotion for individuals, families, and groups experiencing actual or potential alterations in mental health. PREREQUISITE: Unencumbered Practical Nursing License and instructor's permission.

**NURSE 208 (6)****Nursing 7: Community Lab**

Community lab experience planned concurrently with NURSE 207 in a variety of health care settings. PREREQUISITE: Unencumbered Practical Nursing License and concurrent enrollment in NURSE 207 and instructor's permission.

**NURSE 209 (2)****Introduction to Nursing Informatics**

Introduces nursing students to the application of computer technology to the health care profession. PREREQUISITE: Unencumbered Practical Nursing License and instructor's permission.

**NURSE 294****Special Studies in Nursing 2**

Enables students to pursue areas of special interest in the nursing field such as neonatal intensive care, adult critical care, advanced pediatrics, and advanced fetal monitoring.

**Nutrition (NUTR)****NUTR& 101 (5)****Nutrition**

Introduction to the role of nutrition in human health. Topics include human metabolism, utilization of nutrients, nutritive value of foods, factors that affect eating habits, food advertising, nutrition and disease, and establishing a healthy lifestyle. This course is particularly suitable for health occupations students. Formerly NURSE 100.

**Psychology (PSYC)****PSYC 240 (5)****Social Psychology**

Covers theories and supporting research that explore the area of social psychology. Topics may include the social self, stereotypes, prejudice and discrimination, attitudes, persuasion, group influence, conformity and obedience, attraction and close relationships, aggression and helping others. PREREQUISITE: PSYC& 100. *Satisfies a social science requirement for AA degree.*

**Sociology (SOC)****SOC 205 (5)****Sociology of Disability**

A sociological study of disability includes the implications of disability on identity formation and social policies. Examination also includes the intersectionality of disability with other categories such as race, gender, sexual orientation and social class. Investigates the Disability Rights Movement, from the enactment of the American with Disabilities Act to the development of the model of Universal Design. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. *Satisfies a social science and the diversity course requirement for AA degree.*

(1-6)

## REVISED COURSES

### American Minority and Ethnic Studies (AMES)

**AMES 100 (5)**  
**Introduction to Minority and Ethnic Studies**  
 Social and historical overview of the interrelationships between Native American, African American, Latino and Asian Americans in the United States. Focuses on relations with each other and with the dominant society. PREREQUISITE: Eligible for ENGL 100. *Satisfies a social science and the diversity course requirement for AA degree.*

**AMES 150 (5)**  
**Race and Ethnicity in the Pacific**  
 An interdisciplinary social and theoretical overview of the interrelationships that exist among various groups in the Northwest consisting of Washington, Oregon, and Idaho. Focuses on the historical, economical, political and social connections of Native American, African American, Latino/a, and Asian American/Pacific Islander with each other and with the dominant society. PREREQUISITE: Eligible for ENGL 100 or instructor's permission. *Satisfies a social science and the diversity course requirement for AA degree.*

### Anatomy-Physiology (AP)

**AP 100 (5)**  
**Survey of Human Anatomy and Physiology**  
 Covers the basics of human anatomy and physiology including anatomical terminology, basic biochemistry, cells and tissues, and the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Introduces common human disease processes. Prepares non-science majors and allied-health profession students to take advanced anatomy and physiology courses. PREREQUISITE: Eligible for ENGL& 101. *Satisfies a natural science requirement for AA degree.*

**AP 102 (5)**  
**Bringing Anatomy and Physiology to Life**  
 Intended for students interested in taking human anatomy and physiology without going into the depth of the other GRCC anatomy/physiology course. Intended for non-science majors and for students not pursuing an allied health career. Develops an understanding of the structure and function of some of the key systems in the human body. Non-lab science course. PREREQUISITE: Eligible for ENGL& 101 or MATH 072. *Satisfies a natural science requirement for AA degree.*

**AP 103 (5)**  
**Essentials of Human Anatomy-Physiology 1**  
 Introductory course in human anatomy and physiology. First of a two-quarter sequence including the study of structure and function of cells, tissues, and the integumentary, skeletal, muscular, and nervous systems. Introduces common human disease processes. Laboratory component includes anatomical studies using microscopy and dissection and the study of physiological concepts via experimentation. AP 100 strongly recommended. PREREQUISITE: Eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.*

**AP 104 (5)**  
**Essentials of Human Anatomy-Physiology 2**  
 Introductory course in human anatomy and physiology. Second of a two-quarter sequence including the study of the endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Introduces common human disease processes. Laboratory component includes anatomical studies using microscopy and dissection and the study of physiological concepts via experimentation. PREREQUISITE: AP 103 and eligible for ENGL& 101. *Satisfies a lab or natural science or requirement for AA degree.*

**AP 210 (1)**  
**Cadaver Anatomy**  
 Comprehensive review of human cadaver anatomy for health professionals and students of the health professions. Covers major muscles, skin, bones and joints, internal organs, blood vessels, the brain, spinal cord and major nerves. Uses dissected cadavers to

study anatomical variations, pathologies, and anatomical change due to the aging process. PREREQUISITE: Concurrent enrollment in AP 104 or BIOL& 242 and eligible for ENGL& 101; or instructor's permission. *Satisfies a natural science requirement for AA degree.*

### Astronomy (ASTR)

**ASTR& 100 (5)**  
**Survey of Astronomy**  
 Introduces the history of astronomy, star formation, life cycle and death, galactic astronomy, the beginning and evolution of the universe, solar system formation and operation, and the possibility of intelligent life elsewhere in the universe. Does not include a laboratory experience. Not open to students who have taken ASTR& 101. PREREQUISITE: Eligible for ENGL& 101. *Satisfies a natural science requirement for AA degree.* Formerly ASTRO 100.

### Aviation (AVIA)

**AVIA 103 (5)**  
**Aviation History and Careers**  
 Provides students with a clear understanding of aviation, its history, and technological developments in the past, and future. Also addresses the range of career opportunities in the field of aviation, including flight instructor, airline captain, air traffic controller, and aircraft dispatcher. Formerly AVIA 213.

**AVIA 201 (5)**  
**Air Traffic Control 1**  
 Introduces radar and non-radar air traffic control, flight data processing, aircraft communication, FAA separation standards, controller techniques, and airspace management. Covers computer simulation of ATC problems. PREREQUISITE: AVIA 216 or 225, or concurrent enrollment or instructor's permission.

**AVIA 211 (5)**  
**Aerodynamics for Pilots**  
 Covers aerodynamic forces, symbols-equations, airspeed measurements, the four forces of light, jet aircraft performance, propeller aircraft performance, helicopter

aerodynamics, stability, takeoff and landing performance. *Changed credits from 3 to 5.*

**AVIA 216 (5)**

**Basic Instrument Pilot Ground School**

Provides students with information to pass the FAA instrument pilot written examination. Covers basic instrument flight procedures and planning including radio navigation, IFR flight planning and decision-making, ATC procedures, and FAA regulations pertinent to instrument flight. FAA part 141 approved. PREREQUISITE: AVIA 111 and concurrent enrollment in AVIA 226; or instructor's permission.

**AVIA 220 (5)**

**Flight Instructor Ground School**

Prepares students to pass the FAA fundamentals of instructing, basic ground instructor, advanced ground instructor and flight instructor-airplane written tests. Covers aviation instruction methods, the learning process, elements of effective teaching and lesson planning. Also covers aerodynamics, aircraft systems, aviation weather, flight maneuvers and navigation. PREREQUISITE: AVIA 111, 216 and 218.

**AVIA 243 (2)**

**Helicopter Pilot Instrument Flight 2**

Qualifies students to obtain and/or update skills and knowledge necessary for the instrument pilot flight proficiency requirements in a helicopter. A local authorized flight school will provide all in-flight instruction.

**AVIA 245 (2)**

**Professional Pilot Commercial Flight 1**

Qualifies students to obtain and/or update skills and knowledge necessary for 33% of commercial pilot flight proficiency training. A local authorized flight school will provide all in-flight instruction.

**AVIA 247 (2)**

**Professional Pilot Commercial Flight 3**

Qualifies students to obtain and/or update skills and knowledge necessary for commercial pilot flight proficiency requirements in an

airplane. A local authorized flight school will provide in-flight instruction. PREREQUISITE: AVIA 246.

**AVIA 255 (2)**

**Professional Pilot Instrument Flight 1**

Qualifies students to obtain and/or update skills and knowledge necessary for 33% of the instrument pilot flight proficiency requirements. A local authorized flight school will provide all in-flight instruction.

**AVIA 257 (2)**

**Professional Pilot Instrument Flight 3**

Qualifies students to obtain and/or update skills and knowledge necessary for instrument pilot flight proficiency requirements in an airplane. A local authorized flight school will provide in-flight instruction. PREREQUISITE: AVIA 256.

**BIOLOGY (BIOL)**

**BIOL& 100 (5)**

**Survey of Biology**

Presents fundamental topics from all areas of modern biology including the environment, ecology, physiology and cell biology to non-biology majors. Uses examples from all the kingdoms of life. PREREQUISITE: Eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly BIOL 100.

**BIOL 125 (3-5)**

**Field Studies**

Focuses on natural history, ecological and environmental topics at specific geographical areas, and involves online, classroom and field work. A reference letter is required. PREREQUISITE: Instructor's permission. Students must be able to walk 3-7 miles in one day, sleep outside, and follow class and instructor guidelines. PREREQUISITE: Eligible for ENGL& 101.

**BIOL 127 (5)**

**Natural Science of Australia and New Zealand**

Focuses on the ecology of Australia and New Zealand, including ecosystems and human impact on ecosystems. Investigates the biodiversity, characteristics, and interactions of Australian flora and fauna within various habitats and ecosystems. Involves field observations and experiences. Does not meet the lab requirement. PREREQUISITE: Enrollment in Australia Study Abroad Program and eligible for ENGL& 101. *Satisfies a natural science requirement for AA degree.*

**BIOL 140 (1)**

**Field Trips in Biology**

Explores various biological ecosystems of the Pacific Northwest. Locations of the field trips vary from year to year. PREREQUISITE: Eligible for ENGL& 101 and instructor's permission. Satisfies an activity requirement for AA degree.

**BIOL 177 (1-12)**

**Biology Work Experience**

Allows students to work full or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171; and eligible for ENGL& 101; and instructor's permission.

**BIOL 194 (1-5)**

**Special Topics in Biology 1**

Focuses on topics such as bird study, local plants, and environmental issues such as timber management and pollution in Puget Sound. Instructor lectures, leads class and group discussion and readings. May be repeated when a different topic is presented. PREREQUISITE: Eligible for ENGL& 101.

**BIOL 195 (1-4)**

**Special Topics in Biology 2**

A lab component that may be linked to BIOL 194. Focuses on topics such as bird study, local plants, and environmental issues such as timber management and pollution in Puget Sound. PREREQUISITE: Eligible for ENGL& 101.

**BIOL& 212 (5)****Majors Animal**

Surveys the animal kingdom in the context of evolution, taxonomic classification, fundamental physiology, and fundamental ecology. Focuses on selected representatives of the animal kingdom. Laboratory portion of this class corresponds to selected lecture topics, and provides hands-on experience. PREREQUISITE: BIOL& 211 and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly BIOL 202.

**BIOL& 213 (5)****Majors Plant**

Covers the phylogenetic relationships of flowering plants, photosynthesis, plant structure and function, water and mineral nutrition, control of growth and development, and animal and plant ecology. Presents topics using a problem solving approach to plant biology through observation and discussion. Stresses independent laboratory work. Successful students apply their understanding of the principles taught to new situations. PREREQUISITE: BIOL& 211 and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly BIOL 203.

**BIOL& 241 (5)****Human Anatomy-Physiology 1**

First of a two-quarter sequence covering the study of human structure and function. Includes the study of cells, tissues and the integumentary, skeletal, muscular and nervous systems. Explores mechanisms of common human disease processes. Laboratory component includes anatomical studies using microscopy, palpation, and dissection and the study of physiological concepts via experimentation. Prepares transfer students for careers in health profession fields. PREREQUISITE: Eligible for ENGL& 101; and AP 104 or BIL& 160 or BIOL& 211, all with a grade of 2.0 or higher; or instructor's permission. *Satisfies a lab or natural science requirement for AA degree.* Formerly AP 205.

**BIOL& 242 (5)****Human Anatomy-Physiology 2**

Second of a two-quarter sequence covering the study of human structure and function. Includes the study of endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Explores mechanisms of common human disease processes. Laboratory component includes anatomical studies using microscopy, palpation, and dissection and the study of physiological concepts via experimentation. Prepares transfer students for careers in health professions. PREREQUISITE: BIOL& 241 with a minimum grade of 2.0 and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly AP 206.

**BIOL& 260 (5)****Microbiology**

requirement for AA degree. Formerly BIOL 210. Introduces the characteristics and activities of microorganisms with emphasis on the role of microorganisms in medicine, the environment and industry. Topics include microbial classification, growth, metabolism, the role of microorganisms in disease, and immune responses of the host. Laboratory portion includes culture, identification and control of selected microorganisms. PREREQUISITE: AP 104, BIOL& 212, or BIOL& 242; and eligible for ENGL& 101; or instructor's permission. *Satisfies a lab or natural science requirement for AA degree.*

**BIOL 298 (1-5)****Independent Study in Biology**

Independent study of selected topic(s) in various areas of the biological sciences. Student and instructor determine topics and scope. Successful students apply their understanding of the principles taught to new situations. PREREQUISITE: Eligible for ENGL& 101 and instructor's permission.

**Business Management (BUS)****BUS& 201 (5)****Business Law**

Focuses on business law and the regulation of business activities. Emphasizes contracts, the uniform commercial code, sales and secured transactions, bankruptcy, and third party contract rights. Illustrates concepts using the case method presentation approach. PREREQUISITE: READ 094 with a grade of 2.0 or higher; or eligible for READ 104; and POLS& 200; or instructor's permission. **Satisfies a social science requirement for AA degree.** Formerly B A 205.

**Business Education (BUS E)****BUS E 112 (5)****Beginning Word**

Introduces the basic skills of Microsoft Word. Focuses on creating, saving, and printing a document; editing and managing documents; formatting characters and paragraphs; using spellchecker, autocorrect, thesaurus, word count and grammar tools; conducting find and replace; using AutoText; manipulating tabs, merging documents, creating headers, footers, footnotes and end notes. A minimum typing speed of 30 wpm is recommended. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; or instructor's permission.

**BUS E 117 (2)****Exploring PowerPoint**

Students learn to create and deliver easy, effective, professional-looking presentations using Microsoft PowerPoint. PREREQUISITE: BUS E 100 or instructor's permission.

**BUS E 130 (5)****Business Correspondence**

Emphasizes techniques to develop and compose psychologically-sound business letters and memorandums dealing with good news, bad news, and persuasive messages. Teaches students to write a clear and well-organized business report. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; eligible for

ENGL 100 and READ 104; or instructor's permission.

**BUS E 132 (5)**

**Business Communication Applications**

Introduces PowerPoint, Outlook and One Note. Focuses on the applications' basic tools and their usage in business. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; or instructor's permission.

**BUS E 140 (5)**

**Records Management**

Introduces filing methods, related rules and applications for paper and electronic records management. Uses Microsoft Access extensively for lab applications. Students create appropriate electronic file structures for various record volumes. Covers filing equipment, supplies, microfilms, vital records plan, retention scheduling, and the records life cycle process. RECOMMEND: BUS E 185. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; or instructor's permission.

**BUS E 142 (5)**

**Basic Concepts of Healthcare Delivery Systems**

Introduces the organization, financing, regulatory and delivery structures of healthcare services, providers, payers, and agencies in the U.S.. Focuses on the healthcare organization, accreditation standards, payment and reimbursement systems. Addresses current issues in healthcare to enrich the students understanding and breadth of knowledge of the U.S. healthcare system, along with the roles and functions of various healthcare professionals. PREREQUISITE: AP 100 or AP 103, BUS E 100 with a grade of 2.0 or higher; and ENGL 108; or instructor's permission.

**BUS E 150 (5)**

**Introduction to Windows**

Introduces Microsoft Windows graphical user interface, the preparation of text and graphics documents, and the management of windows on the desktop. Includes the customization of the Windows desktop, techniques for working with files, folders and documents, and

communication with other computers through the Internet. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; or instructor's permission.

**BUS E 157 (2)**

**Introduction to Outlook**

Focuses on the application's basic tools for sending and receiving e-mails; organizing schedules and events; making journal entries; and maintaining contact lists, to-do lists, and notes. Covers some customization. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; or instructor's permission.

**BUS E 162 (5)**

**Introduction to Excel**

Introduces the basic skills for developing spreadsheets in Microsoft Excel. Students prepare and format worksheets, and maintain and enhance workbooks. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; or instructor's permission.

**BUS E 184 (5)**

**Internet and Basic Web Design**

Students apply the necessary online skills to be successful using the Internet. Topics include understanding and using the Internet, Web, FTP, E-mail, HTML, Web graphics, browsers, browser plug-ins, relative/absolute addressing, and other related aspects. Students produce a Web site using a variety of available technologies. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; or instructor permission. RECOMMEND: BUS E 150 or IT 110.

**BUS E 185 (5)**

**Introduction to Microsoft Access**

Provides students with introductory Microsoft Access database training, specifically storage of data in a logical manner for later retrieval and use in the business environment. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; or instructor's permission.

**BUS E 250 (5)**

**Office Relations and Procedures**

Provides instruction and activities directed toward technology, communication, and

human relations skills of the administrative support professional. Topics include organizational structures, virtual offices, teamwork, anger, stress and time management; ethics, diversity, and sexual harassment; communication essentials, customer service, postal services, telecommunications, meetings and travel, job search, and leadership elements. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; BUS E 130; and eligible for ENGL& 101; or instructor's permission.

**BUS E 266 (5)**

**Inside Microsoft Office**

Focuses on the use of advanced Microsoft Office including object linking and embedding (OLE) and the integration of applications. Enhances prior application skills through the use of macros and switchboards. These skills culminate in a professional PowerPoint group presentation that also incorporates Word, Excel, and Access concepts. PREREQUISITE: BUS E 100 with a grade of 2.0 or higher; or IT 101. RECOMMEND: BUS E 112, BUS E 150, BUS E 162, and BUS E 185.

**Chemistry (CHEM)**

**CHEM& 121 (5)**

**Introduction to Chemistry**

Beginning course for the non-science student interested in chemistry with less mathematical rigor than CHEM& 140. Together with CHEM& 131, it satisfies the chemistry requirement for many students in the allied health sciences and related fields. PREREQUISITE: MATH 072 or eligible for MATH 097; and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly CHEM 101.

**CHEM& 131 (5)**

**Introduction to Organic Chemistry and Biochemistry**

Satisfies allied health program requirements. Covers structure, nomenclature and reactions of organic and biological compounds, and applications to living systems. PREREQUISITE: CHEM&121 with a grade of 2.0 or higher or instructor's permission and eligible for ENGL&

101. *Satisfies a lab or natural science requirement for AA degree.* Formerly CHEM 102.

**CHEM& 140 (5)**

**General Chemistry Prep with Lab**

Prepares students planning to enroll in the science and engineering majors sequence (CHEM& 161, 162 and 163) who have not completed a one-year high school chemistry course or who need a refresher course prior to entering CHEM& 161. Stresses metric conversions, inorganic naming, equation writing and quantitative aspects of chemistry. PREREQUISITE: A grade of 2.0 or higher in MATH 072; or one year of high school algebra; or concurrent enrollment in MATH 097; or eligible for MATH& 141 or higher. Eligible for ENGL& 101. RECOMMEND: Eligible for READ 104. RESTRICTION: Students who have completed one year of high school chemistry may not be able to transfer more than five credits from CHEM& 121, 131 and 161. *Satisfies a lab or natural science requirement for AA degree.* Formerly CHEM 105.

**CHEM& 161 (6)**

**General Chemistry with Lab I**

For science, engineering and other majors who plan to take a year or more of chemistry. Covers the structure of matter, solution chemistry (acid-base and oxidation-reduction), stoichiometry of reactions in solution, thermochemistry, atomic and electronic structure and quantitative relationships. PREREQUISITE: A grade of 2.0 or higher in CHEM& 140 or a one-year high school chemistry course; and concurrent enrollment in MATH& 141 or eligible for MATH& 142 or higher; or instructor's permission. Eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly CHEM 140.

**CHEM& 162 (6)**

**General Chemistry with Lab II**

Continuation of CHEM& 161. Covers modern atomic theory, chemical bonding, molecular and electronic structure, valence bond theory, liquids and solids, and intermolecular forces. PREREQUISITE: A grade of 2.0 or higher in CHEM& 161 and concurrent enrollment in

MATH& 142 or MATH 147; or eligible for MATH& 151 or higher; or instructor's permission. Eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly CHEM 150.

**CHEM& 163 (6)**

**General Chemistry with Lab III**

Continuation of CHEM& 162. Covers metals and non-metals, electrochemistry, nuclear reactions and coordination compounds, thermodynamics, kinetics, equilibrium, acid-base and solubility equilibria. PREREQUISITE: A grade of 2.0 or higher in CHEM& 162 and eligible for MATH& 151 or higher, or instructor's permission. Eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly CHEM 160.

**CHEM 177 (1-12)**

**Chemistry Work Experience**

Allows students to work full or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission; and eligible for ENGL& 101.

**CHEM 194 (1-5)**

**Special Topics – Chemistry I**

Allows chemistry faculty to teach topics of special interest in chemistry. Not taught on a regular basis. PREREQUISITE: Eligible for ENGL& 101 and instructor's permission. This is a pass/no credit course.

**CHEM 195 (1-5)**

**Special Topics – Chemistry 2**

A continuation of CHEM 194 which allows chemistry faculty to teach topics of special interest in chemistry. Not taught on a regular basis. PREREQUISITE: Eligible for ENGL& 101 and instructor's permission.

**CHEM& 261 (6)**

**Organic Chemistry with Lab I**

For science and other related majors that require a full year of organic chemistry. Covers structure, nomenclature, reactions (including mechanisms) and synthesis of organic

compounds, as well as spectroscopic analysis. PREREQUISITE: CHEM& 163 and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly CHEM 235.

**CHEM& 262 (6)**

**Organic Chemistry with Lab II**

Continuation of CHEM& 261. PREREQUISITE: CHEM& 261 and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly CHEM 236.

**CHEM& 263 (6)**

**Organic Chemistry with Lab III**

A continuation of CHEM& 262. Covers the chemistry of selected classes of biomolecules. PREREQUISITE: CHEM& 262 and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly CHEM 237.

**CHEM 296 (1-5)**

**Independent Study-Chemistry 1**

Permits a student to pursue a special field of interest in chemistry under the guidance of an instructor. PREREQUISITE: Eligible for ENGL& 101 and instructor's permission.

**CHEM 299 (1-5)**

**Independent Study-Chemistry 2**

Permits a student to pursue a special field of interest in chemistry under the guidance of an instructor. PREREQUISITE: Eligible for ENGL& 101 and instructor's permission.

**Chinese (CHIN)**

**CHIN 111 (5)**

**First Year Chinese for Heritage Learners**

Intended for students with some formal or home training in listening and speaking Mandarin Chinese. Focuses on reading comprehension and writing characters in context. Students who speak Mandarin with non-standard accents are trained in standard pronunciation. Uses 80% Mandarin Chinese in the classroom. Course cannot be taken by students who are highly literal in Mandarin Chinese. PREREQUISITE: Eligible for ENGL 100.

*Satisfies a humanities/fine arts/ English requirement for AA degree.*

**CHIN& 121 (5)**

**Chinese I**

Begins the study of Mandarin Chinese (the official Chinese Language). Focuses on listening, speaking, reading, and writing. Emphasizes pronunciation, vocabulary development, and sentence structure. Includes practices with complex Chinese characters, as well as simpler forms. PREREQUISITE: No previous background in Mandarin Chinese, or no more than one year of high school Mandarin, or no more than two years of high school Mandarin with a "C" average or less. Eligible for ENGL& 101. *Satisfies a humanities/fine arts/ English requirement for AA degree.* Formerly CHIN 101.

**CHIN& 122 (5)**

**Chinese II**

Continues the study of Mandarin Chinese. Focuses on listening, speaking, reading, and writing. Emphasizes pronunciation, vocabulary development, and sentence structure. Includes practice with complex Chinese characters as well as simpler forms. PREREQUISITE: A grade of 2.0 or higher in CHIN& 121 or equivalent with instructor's permission and eligible for ENGL& 101. *Satisfies a humanities/fine arts/ English requirement for AA degree.* Formerly CHIN 102.

**CHIN& 123 (5)**

**Chinese III**

Completes the study of Mandarin at the elementary level. Focuses on listening, speaking, reading and writing. Emphasizes pronunciation, vocabulary development, complex sentence structure, and writing with Chinese characters. PREREQUISITE: A grade of 2.0 or higher in CHIN& 122 or equivalent with instructor's permission and eligible for ENGL& 101. *Satisfies a humanities/fine arts/ English requirement for AA degree.* Formerly CHIN 103.

**Communication Studies (CMST)**

**CMST 215 (5)**

**Critical Analysis of Media**

Examines basic theories of media analysis and effects. Covers stereotypes, persuasive messages, and violent and sexual imagery. Applies media theories to a variety of media including movies, television, radio, and print. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly COMM 215.

**CMST 221 (1-2)**

**Public Speaking Module**

Taken in conjunction with courses that require oral presentations. Helps increase confidence and skill when delivering an oral presentation by providing opportunities for individual coaching. Students taking CMST& 220, CMST 100, or CMST& 230 concurrently will be able to practice speeches assigned in their classes, however, this class is available to any student wishing to improve presentational skills. Student coaching sessions will be recorded, and students will have access to their own speeches for the purpose of analysis. PREREQUISITE: Concurrent enrollment in CMST 100, CMST& 220, or CMST& 230 or instructor permission for other courses requiring oral presentations.

**CMST 245 (5)**

**Argumentation**

Introduces and explores the basic theories and practices of argumentation. Discusses the different types of arguments and the tools (theoretical and practical) needed to analyze, understand, and construct arguments. Through in-class projects, students develop the skills necessary to test and apply the theoretical and practical aspects of argumentation. Focuses on the oral presentation of arguments. Uses written work to support and provide context for the oral argumentation practiced in class. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly COMM 245.

**CMST 265 (5)**

**Introduction to Popular Culture**

Why is the iPod so popular? Who really watches reality TV? What makes it possible for celebrities to become activists and politicians? What determines what music will be popular? These are the types of questions popular culture theory explores. Introduces the theories and practices of popular culture. Also introduces some of the most important critiques of culture since the 1930s. Covers the different theories and critiques to help the students understand popular culture, the consumption of popular culture and/or the effects of popular culture in different contexts (e.g., music, film, books, magazines, advertising, comics, television, etc.) RECOMMEND: College-level reading and writing. *Satisfies a humanities/fine art/English requirement for AA degree.*

**Computer Science (CS)**

**CS 132 (5)**

**C++ Data Structures**

A continuation of CS& 131. Uses C++ data structure to illustrate concepts in computer science. Students organize and write C++ language computer programs to obtain the solutions to assigned problems. Emphasizes use of common data structures, abstract data types, inheritance, modularity, encapsulation, and recursion. Students learn to understand, design and implement medium-sized programs. PREREQUISITE: CS& 131 with a grade of 2.0 or higher and MATH& 151. *Satisfies a natural science requirement for AA degree.* Formerly C SCI 143.

**CS 145 (5)**

**Java 2**

A continuation of CS & 141. Uses Java language to cover topics such as classes and interfaces, inheritance, basic design principles, exceptions, stream I/O, user interfaces, recursion, elementary data structures and associated algorithms (lists, queues, stacks, trees); and introduces performance analysis and implementation tradeoffs. Successful completion of the course gives students the tools they need to construct substantial

computer programs and understand computers and software. Course also provides a good foundation for further study in computer science and engineering. PREREQUISITE: CS& 141 with a grade of 2.0 or higher. *Satisfies a natural science requirement for AA degree.* Formerly C SCI 145.

## Drama (DRMA)

### DRMA 111 (5)

#### Rehearsal and Performance 1

Students participate in play production and performance at an introductory level to include bit parts or ensemble members onstage; or member of a backstage crew, e.g., costumes, props, etc. *Satisfies an activity requirement or a humanities/fine arts/English requirement for AA degree.* Formerly DRAMA 111.

### DRMA 112 (5)

#### Rehearsal and Performance 2

Students participate in play production and performance at a beginning level to include bit parts or ensemble members onstage; and/or backstage crew head on costumes, props, etc. PREREQUISITE: DRMA 111. Formerly DRAMA 112.

### DRMA 113 (5)

#### Rehearsal and Performance 3

Students participate in play production and performance at an intermediate level to include featured roles in plays and musicals; and/or backstage crew head on costumes, props, etc. PREREQUISITE: DRMA 112. Formerly DRAMA 113.

### DRMA 151 (5)

#### Acting Fundamentals

Presents basic approaches to acting suitable for all levels of experience including the beginning actor. Students will actively participate in theatre games, storytelling, short monologues and simple scene work. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly DRAMA 151.

### DRMA 153 (5)

#### Acting Workshop

Offers the opportunity for students of varying abilities in acting to approach a role through text analysis, identifying moments, beats and units and applying Actions to those components. Students will be assigned monologues and scenes to rehearse and perform concurrently with the text analysis. *Satisfies an activity or a humanities/fine arts/English requirement for AA degree.* Formerly DRAMA 153.

## English (ENGL)

### ENGL 100 (5)

#### Introductory Composition

Intensive writing course designed to prepare students for ENGL& 101. Focuses on college-level composition skills (composition and revision processes) and college-level reading analysis. Presents a general review of the rules of English grammar and spelling. PREREQUISITE: COMPASS placement (Writing and Reading Scores) or ENGL 081 with a grade of 2.0 or higher and eligible for READ 104.

### ENGL& 101 (5)

#### English Composition

A composition course designed to teach critical reading and clear, purposeful, and effective writing. Writing tasks are related to course readings and prepare students for writing assignments in other college classes. PREREQUISITE: COMPASS placement or a minimum of 2.0 in ENGL 100, and college-level reading skills or a minimum of 2.0 in READ 104. *Satisfies basic skills requirement for AA degree.* Formerly ENGL 110.

### ENGL 126 (5)

#### Writing: Humanities

A composition course with readings designed to teach research-based writing in the disciplines of the humanities. Continues to develop the reading and writing skills taught in ENGL& 101, but emphasizes the development of academic research and writing skills. Students engage in critical thinking throughout the course, which includes analysis, interpretation, and

evaluation of humanities texts and the documentation and synthesis of multiple sources and evidence. PREREQUISITE: A grade of 2.0 in ENGL& 101. *Satisfies basic skills requirement for AA degree.* Formerly ENGL 111.

### ENGL 127 (5)

#### Writing: Social Science

A composition course with readings designed to teach research-based writing in the social sciences. Continues to develop the basic reading and writing skills taught in ENGL& 101, but emphasizes the development of academic research and writing skills. Students engage in critical thinking, which includes the analysis, interpretation, evaluation, documentation, and synthesis of multiple sources and evidence. PREREQUISITE: A grade of 2.0 or higher in ENGL&101. *Satisfies basic skills requirement for AA degree.* Formerly ENGL 112.

### ENGL 128 (5)

#### Research Writing: Science/Engineering/Business

A composition course with readings designed to teach research-based writing in the sciences, engineering and business. Continues to develop the basic reading and writing skills taught in ENGL& 101, but emphasizes the development of academic research and writing skills. Students engage in critical thinking which includes the analysis, interpretation, evaluation, documentation, and synthesis of multiple sources and evidence. PREREQUISITE: A grade of 2.0 or higher in ENGL& 101. *Satisfies a basic skills requirement for AA degree.* Formerly ENGL 113.

### ENGL 161 (5)

#### Cultures of Desires

Examines literary and cultural representations of desire-including love, the erotic, sexuality, the body, the spirit, and community-across various traditions, historical periods, and locations. Literal text may be studied comparatively with mythologies, religions, scientific discourses, the arts, popular culture, and/or cyberspace. Critical questions include



language, identity, hegemony, diversity, and/or freedom, among others.  
 PREREQUISITE: Eligible for ENGL 100 or instructor's permission. *Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.*

**ENGL 164 (5)**  
**Film as Literature**

Students view and then write about films through a literary analysis lens using both literary and film terms and techniques in order to interpret and analyze them. Students discuss and write about the films focusing on themes, symbolism, genre, social and historical context, bias, points of view, plot development, and character development. Course also uses scripts and a film as literature textbook for deeper exploration of the films.  
 PREREQUISITE: Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.*

**Environmental Science (ENV S)**

**ENV S 194 (1-5)**  
**Special Topics - Environmental Science**

Investigates the interaction of physical and biological systems in the environment. Examines the scientific principles which are involved in modern environmental problems and issues. Scientific topics could include energy, climate, soils, water, animal studies, local plants, and the dynamics of plants and animal populations and the communities they form. For students wishing to obtain a broad picture of human activities and their relationship to basic processes of ecosystems. Classes are conducted through lectures, class and group discussion and/or readings. May be repeated when a different topic is presented. This class does not meet the lab requirement.  
 PREREQUISITE: Eligible for ENGL& 101.

**Film (FILM)**

**FILM 120 (5)**  
**The Art of the Film**

Course is an introduction to the art of film. The goal is to instill an appreciation for film as an art form. Course looks at the breadth of

film as an art form by covering aspects of film from the style, theme, genre, cinematic techniques, etc. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly DRMA 120.

**FILM 121**  
**Contemporary American Film**

Examines contemporary American movies: directors, actors, style, and themes of cultural diversity. Focuses on the examination of popular films for greater understanding of cinematic aesthetics and greater awareness of how movies today both reflect and influence values of our culture, with special focus on diversity of gender, ethnicity and class. Satisfies humanities/fine arts/English requirement for AA degree. Formerly DRMA 121.

**FILM 141 (5)**  
**Film and Television as Popular Culture**

Studies the dramatic and cinematic aesthetics of modern film and episodic television. Focuses on the examination of popular film and TV dramas and sitcoms for greater understanding of the power and scope of popular culture. Considers the role of pop culture in both society and self-awareness. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly DRMA 141.

**French (FRCH)**

**FRCH& 121 (5)**  
**French I**

Begins the systematic study of French with an emphasis on speaking and listening. Includes basic grammar, vocabulary, reading, writing, and conversation practice. Students acquire basic knowledge of the diversity of the French speaking world, its history, and cultures.  
 PREREQUISITE: No previous background in French, or no more than one year of high school French, or no more than two years of high school French with a "C" average or less. Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly FREN 101.

**FRCH& 122 (5)**  
**French II**

A systematic study of French using the four basic skills of listening, speaking, reading, and writing. Students acquire basic knowledge of the diversity of the French speaking world, its history, and cultures. PREREQUISITE: A grade of 2.0 or higher in FRCH&121 or equivalent with instructor's permission. Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly FREN 102.

**FRCH& 123 (5)**  
**French III**

Completion of basic system grammar, vocabulary, reading, writing, and conversation. Students acquire basic knowledge of the diversity of the French speaking world, its history, and cultures. Fulfills University of Washington College of Arts and Sciences graduation requirement. PREREQUISITE: A grade of 2.0 or higher in FRCH& 122 or equivalent with instructor's permission. Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly FREN 103.

**Geology (GEOL)**

**GEOL& 101 (5)**  
**Introduction to Physical Geology**

Survey of the physical systems that give the Earth its form. Emphasizes the dynamic nature of interior and exterior processes and their relevance to humans. Laboratory class with field trips. PREREQUISITE: Eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly GEOL 101.

**GEOL 106 (5)**  
**Dinosaurs**

Dinosaur biology, behavior, and evolution. Exploration of the factors that led to the dinosaur's extinction and the history of their discovery by paleontologists. With dinosaurs as the focal point, the course also introduces students to how hypotheses in science are formulated and tested. Students examine fossils of dinosaurs and other prehistoric

animals during classroom discussions.

PREREQUISITE: Eligible for ENGL& 101.

Satisfies a natural science requirement for AA degree.

### **GEOL 107 (5)**

#### **Prehistoric Life**

Introduces fossils and the geologic record.

Topics include geologic time, different types of fossils and how they are preserved, what fossils tell us about past life, how the history of life unfolded, how the earth's environments have changed over time, what caused the great events in biological evolution, and what caused extinctions. PREREQUISITE: Eligible for ENGL& 101. *Satisfies a natural science or lab science requirement for AA degree.*

### **GEOL 150 (1)**

#### **Field Trips in Geology 1**

Investigates the geology of the Pacific Northwest. Locations of field trips vary from quarter to quarter. Some of the trips involve hiking up to 3 or 4 miles on variable terrain. PREREQUISITE: Concurrent enrollment in GEOL, or GEOL& 101, or instructor's permission. Eligible for ENGL& 101. This is a pass/no credit course. *Satisfies an activity requirement for AA degree.*

### **GEOL 151 (1)**

#### **Dinosaurs: Museum Field Trips in Geology**

Students learn about dinosaur biology, behavior, and the reasons behind their extinction. Students examine fossils of dinosaurs and other prehistoric animals during classroom discussions and students are guided through dinosaur exhibits at museums in the Puget Sound region. Students are responsible for museum entry fees and transportation to and from museums. PREREQUISITE: Eligible for ENGL& 101. This is a pass/no credit course.

### **GEOL 152 (1)**

#### **Field Trips in Geology 2**

Investigates the geology of the Pacific Northwest. Locations of field trips vary from quarter to quarter. Some of the trips involve hiking up to 3 or 4 miles on variable terrain. PREREQUISITE: Concurrent enrollment in

GEOL, or GEOL& 101, or instructor's permission. Eligible for ENGL& 101. *This is a pass/no credit course. Satisfies an activity requirement for AA degree.*

### **GEOL 200 (5)**

#### **Geological Investigations of National Parks**

An investigation of the geology of national parks of the U.S. and Canada. The primary emphasis is on the geology of the western park. PREREQUISITE: GEOL& 101 and eligible for ENGL& 101. *Satisfies a natural science requirement for AA degree.*

### **GEOL 206 (5)**

#### **Earth History**

A study of the geological theories of the evolution of the earth, the oceans, the atmospheres, and life. Includes principles of physical stratigraphy, biostratigraphy, geochronology, plate tectonics, fossil identification, and the paleogeographic changes in North America through time. PREREQUISITE: GEOL& 101 and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.*

### **GEOL& 208 (5)**

#### **Geology of the Pacific Northwest**

Covers the geological history of Washington, Oregon, and Idaho. Emphasizes the use of geologic principles in interpreting evidence found in landscapes and rocks. Includes field trips. PREREQUISITE: GEOL& 101 or equivalent and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly GEOL 208.

### **GEOL 299 (1-5)**

#### **Independent Study-Geology**

Allows and encourages students to study independently in their special interest in geology. Course contents, type and scope of project is decided in conference between student and instructor. PREREQUISITE: GEOL& 101 and/or instructor's permission and eligible for ENGL& 101.

## **History (HIST)**

### **HIST 021 (4)**

#### **U.S. History 1**

Covers U.S. history from pre-Colombian times through Reconstruction. Explores topics in political, economic, social, intellectual, cultural, diplomatic and military history. PREREQUISITE: Concurrent enrollment in READ 084 or eligible for READ 094 and ENGL 081.

### **HIST 022 (4)**

#### **U.S. History 2**

Covers US History from Reconstruction to contemporary times. Explores topics in political, economic, social, intellectual, cultural, diplomatic and military history. PREREQUISITE: Concurrent enrollment in READ 094 and ENGL 081.

## **Humanities (HUMAN)**

### **HUMAN 110 (5)**

#### **Background for the Humanities**

Study of the common language of the arts and humanities and their relationship to the societies in which they were created. Includes the study of critical concepts and vocabulary, as well as common motifs and elements in the humanities. Also includes the study of the relationship between arts and humanities of a culture and that cultures economic, political and technological environment. PREREQUISITE: Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.*

### **HUMAN 133 (5)**

#### **People, Language and Culture**

Examines the relationship between language and culture, in particular how the language of a national or ethnic group provides a key to understanding the people who speak that language. Focuses chiefly on Indo-European (other than English) and East Asian languages and cultures, but specific languages studied may vary from quarter to quarter. PREREQUISITE: Eligible for ENGL 100. *Satisfies*

a humanities/fine arts/English requirement for AA degree.

**HUMAN 142 (5)**

**Introduction to Japanese Life and Culture**

Students learn the various aspects of Japanese traditional and popular culture from a Western perspective. Incorporates key features of Japanese culture such as history, film, and art. Integrates other popular culture media such as anime and manga.

RECOMMEND: College-level reading.

PREREQUISITE: Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.*

**HUMAN 146 (5)**

**Introduction to Chinese Culture and Life**

Students learn about various aspects of Chinese traditional and modern culture. Key features of Chinese culture such as history, philosophy, nationalities, arts and language will be incorporated. There will also be integration of other well-known cultural aspects such as martial arts, foods and traditional medicine. Students will understand primary differences between Chinese core culture and Western culture. Students discuss the role of traditional culture in the current economic development of China.

RECOMMEND: College-level reading.

PREREQUISITE: Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.*

**HUMAN 224 (5)**

**Women and World Religions**

Explores feminine perspectives of religion and spirituality in classical and indigenous religions today and throughout history. Examines images of the divine, mythological presentations, as well as roles and practices of women in each tradition through the study of traditional writings, feminist themes and feminist theologies. Addresses questions such as: What do sacred sources in traditional religions say about women and issues of gender; and how both men and women in society used oral and written sacred narratives. PREREQUISITE: Eligible for ENGL

100. *Satisfies a humanities/fine arts/English and the diversity course requirement for AA degree.*

**Interdisciplinary Science (IDS)**

**IDS 101 (5)**

**Interdisciplinary Science 1**

First of a three-quarter sequence integrated science course involving physics, chemistry, biology, and geology. Uses climate and global change as a theme to develop basic concepts in science, such as measurement, analysis of data, hypothesis generation, and testing. Students collect and analyze data in physics, chemistry, biology and geology that relate to the topic of climate and global change.

Includes field trips during class time to locations near the college. PREREQUISITE: MATH 097 or concurrent enrollment and eligible for ENGL& 101. No previous college science or instructor's permission. *Satisfies a lab or natural science requirement for AA degree.*

**IDS 102 (5)**

**Interdisciplinary Science 2**

Second of a three-quarter sequence integrated science course involving physics, chemistry, biology and geology. Uses climate and global change as a theme to develop basic concepts in science, such as measurement, analysis of data, hypothesis generation and testing. Students collect and analyze data in physics, chemistry, biology and geology that relate to the topic of climate and global change. May include field trips during class time to locations near the college.

PREREQUISITE: IDS 101 and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.*

**IDS 103 (5)**

**Interdisciplinary Science 3**

Last of the three-quarter sequence integrated science course involving physics, chemistry, biology and geology. Uses climate and global change as a theme to develop basic concepts in science, such as measurement, analysis of data, hypothesis generation and testing. Students collect and analyze data in physics, chemistry, biology and geology that relate to

the topic of climate and global change. May include field trips during class time to locations near the college. PREREQUISITE: IDS 102 and eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.*

**Information Literacy (INFO)**

**INFO 126 (2)**

**Information Literacy**

Students gain an understanding of information sources in the Humanities. Students develop the ability to locate, evaluate, and effectively use information sources and information retrieval systems pertinent to Humanities disciplines. Students understand the object and method of study in the Humanities, and compare scholarly with popular sources. PREREQUISITE: Eligible for ENGL 100. *This is a pass/no credit course.*

**Information Technology (IT)**

**IT 132 (2)**

**Structured Cabling**

Provides individuals who are new to networking with the foundational knowledge of structured cabling. Topics include cabling concepts, detailed cable characteristics of common cabling types, cabling standards, and hands-on experience with cable termination. PREREQUISITE: IT 101, 114 or 131; or instructor's permission.

**IT 210 (5)**

**Managing Cisco Routers and Switches**

Focuses on the knowledge and skills to implement and configure switching and routing using Cisco products. Topics include device configuration, virtual local area networks (VLANs), routing protocols, and wide area networking (WAN) technologies. PREREQUISITE: IT 130 or instructor's permission.

**IT 240 (5)**

**Routing Theory and Implementation**

Students learn the skills required to configure a Cisco router using Command Line Interface (CLI) commands. Key topics include router components, startup sequence, password

security, and configuring interfaces and routing protocols. PREREQUISITE: IT 130 or IT 131; or concurrent enrollment; or instructor's permission.

## Japanese (JAPN)

### JAPN& 121 (5) Japanese I

Begins the systematic study of Japanese. Includes basic grammar, vocabulary, reading, writing, and conversation practice, and introduces Hiragana and Kanji writing systems. Students learn the history, nature, and diversity of Japanese speaking cultures. PREREQUISITE: No previous background in Japanese, or no more than one year of high school Japanese, or no more than two years of high school Japanese with a "C" average or less. Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly JAPAN 101.

### JAPN& 122 (5) Japanese II

Systematic study of Japanese using the four basic skills of listening, speaking, reading, and writing. Students learn the history, nature, and diversity of Japanese speaking cultures. PREREQUISITE: A grade of 2.0 or higher in JAPN& 121 or equivalent with instructor's permission. Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly JAPAN 102.

### JAPN& 123 (5) Japanese III

Continues the systematic study of Japanese using the four basic skills of listening, speaking, reading, and writing. Students learn the history, nature, and diversity of Japanese speaking cultures. Fulfills the University of Washington College of Arts and Science graduation requirement. PREREQUISITE: A grade of 2.0 or higher in JAPN& 122 or equivalent with instructor's permission. Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly JAPAN 103.

## Journalism (JOURN)

### JOURN 111 (3-5) Radio Laboratory 2

Gives students working at GRCC campus radio station KGRG-FM additional experience in newsgathering, remote broadcasting, and on-the-air performance. PREREQUISITE: JOURN 110 or instructor's permission.

### JOURN 112 (3-5) Radio Laboratory 3

Gives students working at GRCC campus radio station KGRG-FM additional experience in production work, news casting, and on-the-air performance. PREREQUISITE: JOURN 111 or instructor's permission.

### JOURN 152 (3) Radio and the Community

Covers radio management practices emphasizing the business of broadcasting. Includes sales, promotion, community relations, government regulations, demographics and programming. *Satisfies a humanities/fine arts/English requirement for AA degree.*

### JOURN 251 (3) Journalism Internship 1

Students work for a local media company 10 hours per week each quarter and meet one hour a week with an instructor to evaluate their on-the-job training. PREREQUISITE: Instructor's permission.

### JOURN 253 (3) Journalism Internship 3

Students work for a local newspaper or radio station 10 hours per week each quarter and meets one hour a week with an instructor to evaluate their on-the-job training. PREREQUISITE: Instructor's permission.

## Mathematics (MATH)

### MATH 147 (5) Finite Mathematics: Business and Social Science

Study of graphs and solutions of linear equations, systems of equations, matrices, linear inequalities and linear programming, the simplex method, piecewise defined, quadratic, polynomial, rational exponential and logarithmic functions, and financial formulas. Many problems and examples are drawn from the fields of business, economics, and social science. Graphing calculator required. PREREQUISITE: MATH 097 with a grade of 2.0 or higher; or appropriate placement test score; or high school transcript evaluation; or instructor's permission. *Satisfies a natural science or quantitative skills requirement for AA degree.*

## Natural Resources (NATRS)

### NATRS 181 (8) Forest Navigation and Mapping

Teaches the use of compass and chain/tape, mapping, map reading, topography, orientation, area determination, triangulation, the U.S. survey system, notekeeping, field reporting, GPS (Global Positioning Systems), and pacing. Uses extensive field exercises in individual, team, and group situations. Students conducts open and closed traverses of roads, trails, and areas. PREREQUISITE: NATRS 180 with a grade of 2.0 or higher; or instructor's permission.

### NATRS 114 (1) Chainsaw Operation and Maintenance

Students demonstrate competency using small engine-powered forestry equipment. Teaches safety, maintenance, repairs and operation of the equipment. Emphasizes how the equipment is used in current forestry operations. PREREQUISITE: Instructor's permission. This is a pass/no credit course. *Change course number from FORES 114.*

**NATRS 205 (4)****Wildland Recreation**

Students learn skills needed to develop and manage wildland parks and recreational sites for private, state, and federal owners.

Students visit, observe, and participate in actual projects within the growing wildland recreational industry. PREREQUISITE: Eligible for ENGL 100 and NATRS 172; or instructor's permission.

**NATRS 294.1 (4)****Natural Resources Internship 1**

Internship requires the student to work full time in a paid or volunteer position for an agency or company that will best help the student enhance his/her technical skills and prepare the student for career employment. The student must earn 4 credits by working 132 hours during the quarter following completion of the second-year Natural Resources courses. Students will find and choose their employers and obtain instructor approval before beginning work. Students must have suitable field clothes and equipment for the internship position.

PREREQUISITE: Instructor's permission. *This is a pass/no credit course.*

**NATRS 294.2 (4)****Natural Resources Internship 2**

Internship requires the student to work full time in a paid or volunteer position for an agency or company that will best help the student enhance his/her technical skills and prepare the student for career employment. The student must earn 4 credits by working 132 hours following NATRS 294.1. Students will find and choose their employers and obtain instructor approval before beginning work. Students must have suitable field clothes and equipment for the internship position. PREREQUISITE: Instructor's permission. *This is a pass/no credit course.*

**NATRS 294.3 (4)****Natural Resources Internship 3**

Internship requires the student to work full time in a paid or volunteer position for an agency or company that will best help the student enhance his/her technical skills and

prepare the student for career employment.

The student must earn 3 credits by working 99 hours following NATRS 294.2. Students will find and choose their employers and obtain instructor approval before beginning work.

Students must have suitable field clothes and equipment for the internship position. PREREQUISITE: Instructor's permission. *This is a pass/no credit course.*

**NATRS 294.4 (4)****Natural Resources Internship 4**

Internship requires the student to work full time in a paid or volunteer position for an agency or company that will best help the student enhance his/her technical skills and prepare the student for career employment. The student must earn 3 credits by working 99 hours following NATRS 294.3. Students will find and choose their employers and obtain instructor approval before beginning work.

Students must have suitable field clothes and equipment for the internship position. PREREQUISITE: Instructor's permission. *This is a pass/no credit course.*

**Nursing (NURSE)****NURSE 102 (3)****Introduction to Clinical Pharmacology in Nursing**

Introduction to clinical drug therapy emphasizing the knowledge and interventions needed to maximize therapeutic effects and prevent or minimize adverse effects of drugs. Major content areas include basic concepts of pharmacology, groups of therapeutic drugs, prototypes of drugs, commonly prescribed individual drugs, drug effects on body tissues, and applying the nursing process in relation to prescribed therapy regimens. PREREQUISITE: Enrollment in Practical Nursing program or instructor's permission.

**NURSE 103 (2)****Drug Therapy and the Nursing Process**

Focuses on the relationship of the nursing process and drug therapy. Includes the principles of medication administration and evaluation of the patient. Presents major drug classifications with related nursing implications. PREREQUISITE: NURSE 102 or instructor's permission.

**NURSE 106 (8)****Nursing 2**

Students study diseases through the identification of the relationships and similarities of health problems. Students apply information to all age groups. PREREQUISITE: NURSE 104 and 105; concurrent enrollment in NURSE 107; or instructor's permission.

**NURSE 107 (8)****Nursing 2 Community Lab 2**

Lab experience planned concurrently with NURSE 106 in various healthcare settings. PREREQUISITE: NURSE 105 or instructor's permission; and concurrent enrollment in NURSE 106.

**NURSE 109 (8)****Nursing 3 Community Lab 3**

A lab experience planned concurrently with NURSE 110. Provides opportunity to learn basic to more advanced nursing skills including patient/client assessment, basic hygiene and assistance with activities of daily living. PREREQUISITE: Concurrent enrollment in NURSE 110.

**NURSE 110 (8)****Nursing 3**

Study of diseases through the identification of the relationships and similarities of health problems. Students apply this information to all age groups. PREREQUISITE: Enrollment in the Practical Nursing Program; NURSE 106; and concurrent enrollment in NURSE 109; or instructor's permission.

**NURSE 113****Nursing 4 Community Lab 4**

A lab experience planned concurrently with NURSE 112. Provides opportunity to learn more advanced medical surgical nursing skills, as well as mother/baby care. PREREQUISITE: NURSE 109 and 110 or instructor's permission; and concurrent enrollment in NURSE 112.

**Oceanography (OCEA)****OCEA& 101****(5)****Introduction to Oceanography**

Introduces the fundamental principles of ocean science: the geology and geography of ocean basins; chemistry of sea water; physical dynamics of currents, waves, and tides; coastal processes; how human activity influences ocean environments; and the diverse ecosystems of Earth's oceans such as deep sea vents, coral reefs, and estuaries. PREREQUISITE: Eligible for ENGL& 101. *Satisfies a lab or natural science requirement for AA degree.* Formerly OCEAN 101.

**Philosophy (PHIL)****PHIL 115****(5)****Critical Thinking**

Introduces students to informal non-symbolic logic and critical thinking. Sample topics include language analysis, inductive reasoning, statistical analysis, causal reasoning, arguments from analogy and fallacious patterns of reasoning. Students examine arguments in real-life situations, such as in conversations, television presentations, political speeches, editorials, and other writings on various topics. *Satisfies a humanities/fine arts/English requirement for AA degree.*

**PHIL& 120****(5)****Symbolic Logic**

Introduces students to modern symbolic logic, including both propositional logic translation and proofs and predicate logic translation and proofs. Topics may include recognizing arguments, translating from a natural to a formal language, validity of arguments, logical

implications, equivalency, and consistency. PREREQUISITE: Eligible for ENGL 100. *Satisfies a natural science requirement or, under certain conditions, the quantitative component of the basic skills requirement for AA degree.* Formerly PHIL& 106.

**Physics (PHYS)****PHYS& 110****(5)****Concepts of the Physical World**

PHY For the student with no previous experience in physics or other physical science courses and even an apprehension toward science and math. Topics such as light, sound, electricity, motion, are used to develop underlying principles which describe some of our physical universe. Stresses conceptual reasoning while mathematics is limited to arithmetic reasoning. Uses a hands-on approach to more easily gain insight to the concepts being studied. PREREQUISITE: Eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 105.

**PHYS& 114.****(5)****General Physics I with Lab**

For students in technical and transfer programs. Course goals are to further develop an understanding of basic concepts of physics and analytical and problem-solving skills. Laboratory is an integral component of the course. Covers Newton's Laws form the framework within which ideas of motion, forces, momentum and energy. No credits given to students who have completed PHYS 154. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in MATH 097 or 116T; or 1-1/2 years of high school algebra. *Satisfies a lab or natural science requirement for AA degree.* Formerly PHYS 110.

**PHYS& 115****(5)****General Physics II with Lab**

Continues the goals of PHYS& 114. Course is based on concepts involving thermal properties of matter, and electricity and magnetism. Teaches the properties of fluids as time permits. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in

PHYS& 114 and in MATH 097, or 117T, or 1-1/2 years of high school Algebra. *Satisfies a lab or natural science requirement for AA degree.* Formerly PHYS 111.

**PHYS& 116****(5)****General Physics III with Lab**

Continues the goals of PHYS& 115. Explores the concepts associated with wave phenomena and atomic physics. Uses sound, light (including lasers) and mechanical vibrations as examples of waves. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 115 and MATH 097, 117T or 1-1/2 years of high school Algebra. *Satisfies a lab or natural science requirement for AA degree.* Formerly PHYS 112.

**PHYS 154****(5)****Physics for Life Sciences 1**

For students in college transfer programs, especially those interested in biological or medical sciences. Course develops an understanding of the basic concepts of physics and analytical and problem-solving skills with applications to biological systems. Laboratory is an integral component of the course. Teaches the dynamics of heat, energy, fluid flow, and electricity with biological and medical applications. No credit given to students who have completed PHYS& 114. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in MATH 097 or 116T or 1-1/2 years of high school Algebra. *Satisfies a lab or natural science requirement for AA degree.* Formerly PHYS 150.

**PHYS 155****(5)****Physics for Life Sciences 2**

For students in college transfer programs, especially those interested in biological or medical sciences. Course develops an understanding of the basic concepts of physics and analytical and problem-solving skills with applications to biological systems. Laboratory is an integral component of the course. Teaches the dynamics of oscillations, waves, electromagnetism, and light with biological and medical applications. No credit given to students who have completed PHYS& 115.

PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 114 or PHYS 154 and in either MATH 097 or 1 1/2 years of high school Algebra. *Satisfies a lab or natural science requirement for AA degree.* Formerly PHYS 151.

**PHYS 156 (5)**  
**Physics for Life Sciences 3**

For students in college transfer programs, especially those interested in biological or medical sciences. Course develops an understanding of the basic concepts of physics and analytical and problem-solving skills with applications to biological systems. Laboratory is an integral component of the course. Teaches the dynamics of oscillations, waves, electromagnetism, and light with biological and medical applications. No credit given to students who have completed PHYS& 116. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 115 or PHYS 156; and either MATH 097 or 116T, or 1 1/2 years of high school Algebra. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 152.

**PHYS& 221 (5)**  
**Engineering Physics I with Lab**

Includes a detailed study of the basic laws of physics. Emphasizes the evolution of ideas from experimental observation to mathematical models. Includes a comprehensive investigation of Newtonian particle dynamics. Laboratory is an integral part of the course. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 114 or in a high school physics, or equivalent, and in MATH& 142 or equivalent with concurrent enrollment or completion in MATH& 151. *Satisfies a lab or natural science requirement for AA degree.* Formerly PHYS 201.

**PHYS& 222 (5)**  
**Engineering Physics II with Lab**

Applications of Newtonian Physics to energy, momentum, and extended bodies, as well as the study of electro-magnetic theory. Course develops ideas from experimental observation to a mathematics model. Laboratory is an

integral part of the course. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 221 and MATH& 151 and at least concurrent enrollment in MATH& 152. *Satisfies a lab or natural science requirement for AA degree.* Formerly PHYS 202.

**PHYS& 223 (5)**  
**Engineering Physics III with Lab**

Study of classical wave properties with applications to mechanical and electrical systems, sound, electromagnetic waves, light, and atomic physics. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 222 and MATH& 152 and at least concurrent enrollment in MATH& 153. *Satisfies a lab or natural science requirement for AA degree.* Formerly PHYS 203.

**PHYS 229 (2)**  
**Electric and Magnetic Fields**

Introduces the quantitative laws of electricity and magnetism including principles of electromagnets, electric generators, and electromagnetic waves. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 222 and MATH & 152 and at least concurrent enrollment in MATH& 153. *Satisfies a natural science requirement for AA degree.* Formerly PHYS 208.

**Political Science (POLS)**

**POLS& 204 (5)**  
**Comparative Government**

A comparative analysis of politics and types of governing systems around the globe (e.g., democratic, authoritarian, theocratic, parliamentary, presidential). Examines power relationships (e.g., race, ethnicity, religion, sex) and citizen rights. Explores and analyzes the political issues and problems in their international, historical, economic, and cultural contexts. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. *Satisfies a social science and the diversity course requirement for AA degree.* Formerly P SCI 201.

**Spanish (SPAN)**

**SPAN 110 (4)**

**Spanish Oral Practice**

Oral discussion of current events, cultural topics and subjects of particular interest to the class. Revision of basic grammar and relevant vocabulary that allows proper oral communication in Spanish. PREREQUISITE: Eligible for ENGL 100 and SPAN& 122, or two years of high school Spanish or equivalent or instructor permission. *Satisfies a humanities/fine arts/English requirement for AA degree.*

**SPAN 111 (5)**

**Spanish for Health Care Workers 1**

Focuses on developing basic communication skills primarily for health care workers or for anyone desiring a background in the language of health care in Spanish. Students learn introductory vocabulary and grammatical structures in Spanish related to the language of health care. PREREQUISITE: Eligible for ENGL 100.

**SPAN 112**

**Spanish for Health Care Workers 2**

A continuation of SPAN 111. Focuses on further developing communication skills primarily for health care workers or for anyone desiring a background in the language of medicine in Spanish. Students expand introductory vocabulary and grammatical structures in Spanish related to the language health care. PREREQUISITE: Eligible for ENGL 100 and SPAN 111 with a grade of 2.0 or higher.

**SPAN 115 (1)**

**Hispanic Activities**

Allows students to learn about the multiple contributions of the Hispanic world to the global community. Students are exposed to different elements of Hispanic culture, including music, dancing, and festivals, as well as basic Hispanic history. PREREQUISITE: Eligible for ENGL 100. *Satisfies an activity requirement for AA degree.*

**SPAN& 121 (5)**  
**Spanish I**  
 Begins the systematic study of Spanish emphasizing speaking and listening, basic grammar, vocabulary, reading, writing, and conversation practice. Course requires practice with lab materials. PREREQUISITE: No previous background in Spanish, or no more than one year of high school Spanish, or no more than two years of high school Spanish with a "C" average or less. Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly SPAN 101.

**SPAN& 122 (5)**  
**Spanish II**  
 Systematic study of Spanish using the four basic skills of listening, speaking, reading and writing. Course requires practice with lab materials. PREREQUISITE: A grade of 2.0 or higher in SPAN& 121 or equivalent with instructor permission. The equivalent of SPAN& 121 is one year in high school with a grade of B or higher. Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly SPAN 102.

**SPAN& 123 (5)**  
**Spanish III**  
 Completion of basic grammar system grammar, vocabulary, reading, writing, and conversation. Course requires practice with lab materials. Fulfills the University of Washington College of Arts and Sciences graduation requirement. PREREQUISITE: A grade of 2.0 or higher in SPAN& 122 or equivalent with instructor permission. The equivalent of SPAN& 122 is two years in high school with a grade of B or higher. Eligible for ENGL 100. *Satisfies a humanities/fine arts/English requirement for AA degree.* Formerly SPAN 103.

**SPAN 194**  
**Special Studies – Spanish**  
 A field course experience in which students improve their conversational Spanish within a cultural framework. Content varies each time the course is offered. Includes actual practice in the language. PREREQUISITE: SPAN& 121 and &122 or instructor's permission. Eligible for ENGL 100.

**SPAN& 221 (5)**  
**Spanish IV**  
 Systematic review of Spanish grammar aimed at communicative competency at an intermediate level. Intensive practice in listening, speaking, reading, and writing with special emphasis on reading and reacting to texts that explore the diversity of the Spanish speaking world, as well as the global and local implications of gender, racial and cultural interdependence. Includes oral practice through discussion of above mentioned materials. PREREQUISITE: Eligible for ENGL 100 and a grade of 2.0 or higher in SPAN& 123 or equivalent with instructor permission. The equivalent of SPAN& 123 is three years in high school with a grade of B or higher. *Satisfies a humanities/fine arts/English and the diversity course requirement for AA degree.* Formerly SPAN 201.

**SPAN& 222 (5)**  
**Spanish V**  
 Systematic review of Spanish grammar aimed at communicative competency at an intermediate level. Intensive practice in listening, speaking, reading, and writing with special emphasis on reading and reacting to texts that explore the diversity of the Spanish speaking world, as well as the global and local implications of gender, racial and cultural interdependence. Includes oral practice through discussion of above mentioned materials. PREREQUISITE: Eligible for ENGL 100 and a grade of 2.0 or higher in SPAN& 221 or equivalent with instructor permission. The equivalent of SPAN& 221 is four years in high school with a grade of B or above higher. *Satisfies a humanities/fine arts/English and the diversity course requirement for AA degree.* Formerly SPAN 202.

**SPAN& ~~223~~ (5)**  
**Spanish VI**  
 Systematic review of Spanish grammar aimed at communicative competency at an intermediate level. Intensive practice in listening, speaking, reading, and writing with special emphasis on reading and reacting to texts that explore the diversity of the Spanish speaking world, as well as the global and local implications of gender, racial and cultural interdependence. Includes oral practice through discussion of above mentioned materials. PREREQUISITE: Eligible for ENGL 100 and a grade of 2.0 or higher in SPAN& 222 or equivalent with instructor's permission. *Satisfies a humanities/fine arts/English and the diversity course requirement for AA degree.* Formerly SPAN 203.

**SPAN 299 (1-5)**  
**Independent Study-Spanish**  
 Encourages students to study independently in a field of their special interest in Spanish. Students meet on a tutorial basis with their instructor. Course content is decided in conferences between student and instructor. PREREQUISITE: Eligible for ENGL 100 and a grade of 2.0 or higher in SPAN& 222 or equivalent with instructor permission.



**LIST OF CANCELLED COURSES**

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BEHSC 101  
BEHSC 103  
BEHSC 107  
BEHSC 115  
BEHSC 180  
BEHSC 185  
BEHSC 190  
BEHSC 194  
BEHCS 298  
BEHCS 299  
ECE 113.1  
ECE 113.2  
ECE 150  
ECE 225  
ECE 243  
EDUC 111  
EDUC 193  
ESOL 003  
ESOL 004  
ESOL 005  
ESOL 006  
ESOL 008  
ESOL 021  
ESOL 022  
ESOL 023  
ESOL 024  
ESOL 025  
ESOL 026  
ESOL 042  
ESOL 043  
HSC 031  
HSC 032  
IT 110  
IT 115  
IT 140  
NATRS 191  
NRS A 10  
NRS A 101  
NRS A 102  
NRS A 103  
NRS A 104  
NRS A 105  
NURSE 108  
NURSE 118