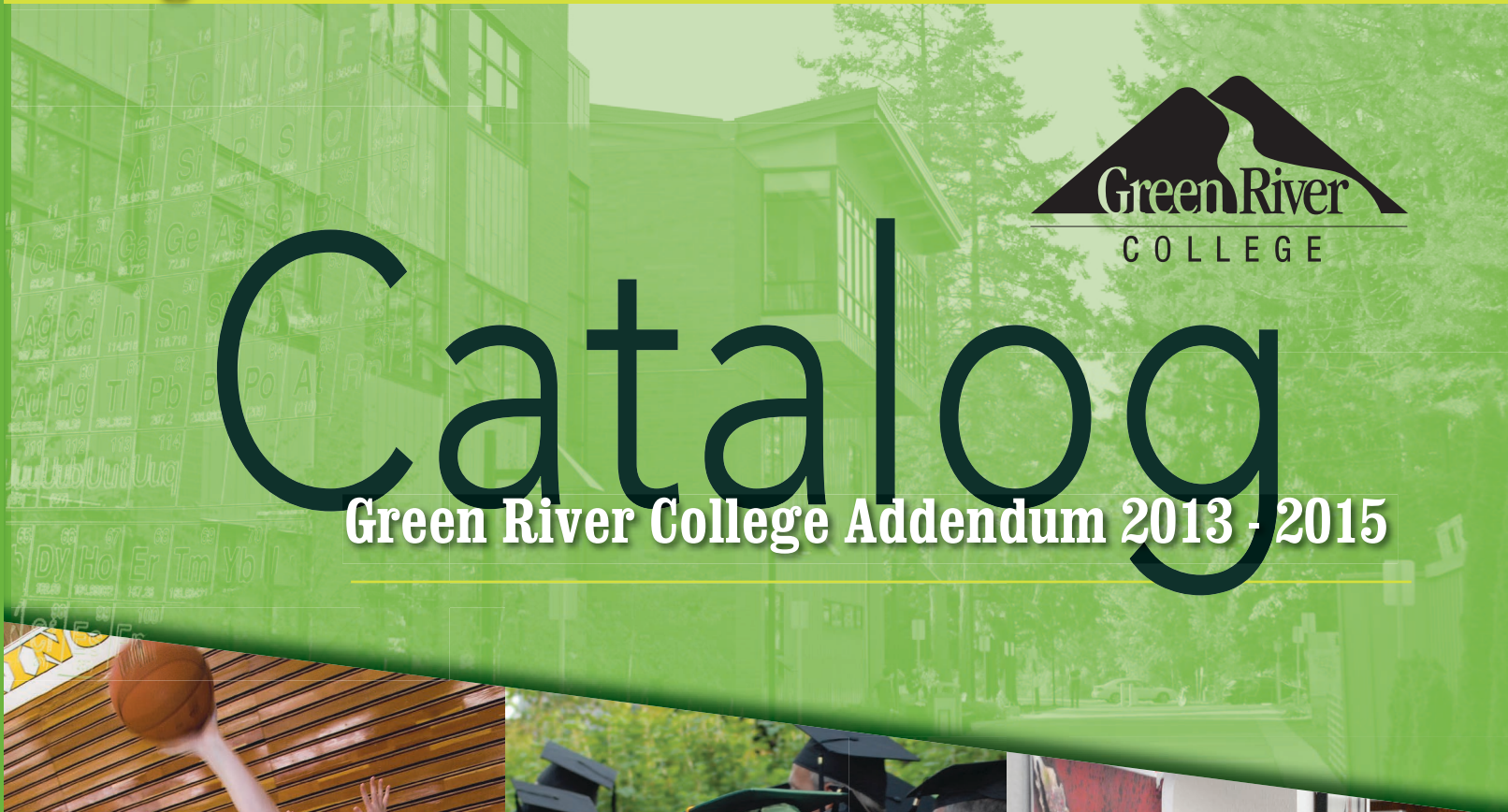




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Green River College Catalog Addendum 2013 - 2015



# Catalog

Green River College Addendum 2013 - 2015



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## DEGREES AND CERTIFICATE PROGRAMS

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

### TRANSFER DEGREES

A. There are no new transfer degree additions.

B. The following lists the revisions 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
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

C. The following lists the cancelled transfer degrees:

AEE-DTA/MRP	Associate in Elementary Education – Direct Transfer Agreement/Major Related Program
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# Associate in Arts Degree – Direct Transfer Agreement (AA-DTA)

Minimum of 90 Credits (Summer 2015)

The Associate in Arts degree is a direct transfer degree (DTA) designed for students who plan to transfer to a university after completing the first two years of study at Green River. The degree is recommended for students who have not yet decided the field they will enter or the university they will attend. It gives students the broad background they need before beginning more specialized, upper-division courses and indicates that a student has completed a two-year liberal arts program.

Students who have a particular major in mind can focus their distribution choices and elective credits toward meeting their transfer institution plan. An advisor can assist with this process. Students should include some 200 level coursework in their program of study.

This degree meets the Intercollege Relations Commission (ICRC) guidelines for direct transfer degrees, an inter-institutional agreement adopted to facilitate student transfer between Washington state community colleges and baccalaureate institutions.

Once admitted to an institution subscribing to these guidelines, the degree holder will be granted junior status and will have fulfilled most of the lower-division general education requirements of baccalaureate degree programs offered by many public and independent colleges and universities in Washington State. The following colleges subscribe to these guidelines:

## Washington

Bastyr University  
Central Washington University  
City University  
Cornish College of the Arts  
Eastern Washington University  
Gonzaga University  
Heritage University  
Northwest University  
Pacific Lutheran University  
Saint Martin's University  
Seattle Pacific University

The Evergreen State College  
Trinity Lutheran University  
University of Washington (some restrictions apply)  
University of Washington Bothell  
University of Washington Tacoma  
Washington State University  
Washington State University Tri-Cities  
Washington State University Vancouver  
Western Washington University  
Whitworth University

## Other States

Seattle University  
Argosy University  
Capella University California  
Oregon State University  
University of North Dakota  
University of Phoenix

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.

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% 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.

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 (15 credits)

*Any course used to satisfy Basic Skills distribution may not be used to satisfy any other portion of the Associate in 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)

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

**Math 106, &107, &141, &142, 147, &148, &151, &152, &153, &171\*, &172\*, &173\*, 210, 238, 240, &254, 256**

**Phil& 120\*\***

*\*\*Students who have taken PHIL& 120 before Fall 2013, must also take Math 097 (or higher) and pass with a grade of 2.0 or higher; or have COMPASS placement of*

*Math& 107 or higher)*

*\* Math& 171, &172, and &173 does not satisfy this requirement at the University of Washington.*

### 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). Courses that fulfill the diversity requirement may also be used to fulfill a distribution requirement (all*

*courses in italics). See Section 7 for a complete list of courses satisfying the diversity course requirements.*

**Art &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 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, 266**

**Dance 101, 102, 103, 110, 204**  
**Drama &101, 102, 111, 151, 152,**

153, 154, 157

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

Film 120, 121, 122, 191

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

German &121, &122, &123

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

Japanese &121, &122, &123

Journalism 101, 107, 150, 151, 152, 254

Music 101, 103, 104, &105, 107, 108, 109, 110, **118, 119, 120, &121, &122, &123, 124, 125, 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)

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. Courses that fulfill the diversity requirement (all courses in italics) may also be used to fulfill a distribution requirement. See Section 7 for a list of courses satisfying the diversity course requirements.

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

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

**Business Management** &101, 181, &201

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

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

**Geography** &100, 120, 123, 190, &200, 201, 205, 210

**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, 271

### 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, &171, &172, &173, 210, 238, 240, &254, 256

**Nutrition** &101

**Philosophy** &120, 215

### 5. ADDITIONAL CREDITS (15 credits)

A minimum of 15 credits from courses listed in one or both of the following categories:

#### A. Distribution Courses

Courses in Humanities/Fine Arts/English, Social Science, or Natural Science categories listed above. There is no restriction on the number of required disciplines.

#### B. Generally Transferable Courses:

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

**Early Childhood Education** &105

**Education** &115, &204, &205, 210

**Natural Resources** 100

### 6. LIFETIME FITNESS/WELLNESS and ACTIVITY (4-9 credits)

#### A. Lifetime Fitness/Wellness (3 credits required).

One 2- or 3-credit course from List A is required.

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

One course from List B must be taken if a 2-credit class from List A has been chosen:

**LIST B: Physical Education** 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

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

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

#### B. Activity (1-6 credits)

An activity is a fully instructed course of study that primarily involves the student in an activity that develops a technique or skill.

**Art** 105, 106, 107, 111, 112, 113, 114, 119, 130, 219, 255, 256, 257

**Biology** 140

**Business Technologies and Administrative Careers** 111, 115

**Business Management** 103

**Dance** 101

**Drama** 111, 153

**Early Childhood Education**

&120, 124, 175, 220

**Education** 210

**Geology** 150, 152, 153

**Health Education** 190

**Industrial Education** 101, 102.1 or 102.2 or 102.3, 103

**Journalism** 100.1, 110, 120, 200

**Music** 118, 124, 127, 130.1, 140

**Photography** 101, 111, 112, 113

**Spanish** 115

**Technology** 100

### 7. DIVERSITY REQUIREMENT

(1 course)

A minimum of one course from the following list must be taken to satisfy the diversity course requirement. In most cases, a course from the list below (*in italics*) also satisfies other distribution areas.

*Ames* 100, 150

**Anthropology** &206, &210

**Communication Studies** 238, 265

**Criminal Justice** 220

**English** 160, 161, 163, 165, 168, 247, 248, 249, &256, 257

*Film* 121, 191

**Geography** &200

**History** 103, &215, 224, 226, 228, 233

**Humanities** 190, 191, 224

**Philosophy** 206, 238

**Political Science** &204

**Sociology** 205, 220

**Spanish** &221, &222, &223

### 8. ELECTIVES (6-11 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.

### 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 Business Degree

## Direct Transfer Agreement (AB-DTA) – 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, 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 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 &148 or &151** and one of the following:  
**Mathematics &141, &142, 147, &148, &151, &152 or &153**

*Note: Students may take both Math &148 and &151 to meet the 10 credits required for the Quantitative Skills/Reasoning requirement.*

### 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, 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, 266**

**Dance 101, 102, 103, 110, 204**  
**Drama &101, 102, 111, 151, 152, 153, 154, 157**

**English &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257**  
**Film 120, 121, 122, 191**

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

**Humanities 100, 110, 133, 142, 146, 160, 186, 190, 191, 224**  
**Japanese &121, &122, &123**  
**Journalism 101, 107, 150, 151, 152, 254**

**Music 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 125, 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, 181**

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

**Geography &100, 120, 123, 190, &200, 201, 205, 210**

**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, 271**

### 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 Fine Arts Degree in Art

## Direct Transfer Agreement (AFA-DTA) – 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 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 (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)

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

**Math 106, &107, &141, &142, &147, &148, &151, &152, &153, &171\*, &172\*, &173\*, 210, 238, 240, &254, 256**

**Phil& 120\*\***

*\*\*Students who have taken PHIL& 120 before Fall2013, must also take MATH 097 (or higher) and pass with a grade of 2.0 or higher; or have COMPASS placement of MATH& 107 or higher)*

*\* Math& 171, &172, and &173 does not satisfy this requirement at the University of Washington.*

### 2. HUMANITIES/FINE ARTS/

**ENGLISH (15 credits)** Three separate areas.

*Choose 10 credits from the following:*

**Art 212 or 213 or 214**

**Photography 101 or 111**

*Choose 5 credits from following:*

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

**Communication Studies &102, &210, 212, 215, &220, &230, 238, 245, 265, 266**

**Drama &101**

**English &112, &113, &114, 115, 160, 161, 163, 165, 168, 180, 181,**

**183, 185, 187, 190, &220, &226.**

**&227, &228, &236, &237, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257**

**Film 120, 121, 122, 191**

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

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

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

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

**Music 101, 103, 104, &105, 107, 108, 109, 110, &131, &132, &133**

**Philosophy &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200,**

**206, 210, 220, 236, 238, 240, 243**

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

### 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, 210**

**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, 271**

### 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, &171, &172, &173, 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—Art Electives (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, 111, 115, 120, 122, 130, 133, 135, 150, 177, 178, 179, 180, 212\*, 213\*, 214\*, 219, 251, 252, 253, 255, 256, 257, 275, 276, 277, 294, 295, 296, 297, 298, 299**

**Photo 101\*, 102, 103, 111\*, 112, 113, 197**

*\* 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 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 Degree

## Direct Transfer Agreement (AM-DTA) – 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 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 (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, 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, 266

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

**Drama &101, 102, 111, 151, 152, 153, 154, 157**

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

**Film 120, 121, 122, 191**

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

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

**Humanities 100, 110, 133, 142,**

**146, 160, 186, 190, 191, 224**

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

**Journalism 101, 107, 150, 151, 152, 254**

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

**108, 109, 110, 118, 119, 120,**

**&121, &122, &123, 124, 125, 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 (5 credits)

**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, &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, 202, 205, 215, 220, 230, 240, 245, 260, 271**

### 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, or 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 (APreN-DTA) – 90-91 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 90-91-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 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 (15 credits)

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

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

**English &101 and**

**English 127 or 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, 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, 266**  
**Dance 101, 102, 103, 110, 204**

**Drama &101, 102, 111, 151, 152, 153, 154, 157**

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

**Film 120, 121, 122, 191**

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

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

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

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

**Journalism 101, 107, 150, 151, 152, 254**

**Music 101, 103, 104, &105, 107, 108, 109, 110,**

**118, 119, 120, &121, &122, &123, 124, 125, 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, 260 or 271**

## 4. NATURAL SCIENCES

*(35-36 credits with a minimum of 25 credits lab-based)*

A. **Biology &160 or &211 and &260**

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

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

D. **Nutrition &101**

## 5. ADDITIONAL COURSES

*Select 10 credits from the Humanities/Fine Arts/English, Social Science, and Natural Science distribution requirement of AA degree.*

## 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) – 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, &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, 130, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257**  
**Chinese 111, &121, &122, &123**  
**Communication Studies &102,**

**&210, &220, 212, 215, &230, 238, 245, 265, 266**

**Dance 101, 102, 103, 110, 204**  
**Drama &101, 102, 111, 151, 152, 153, 154, 157**

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

**Film 120, 121, 122, 191**

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

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

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

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

**Journalism 101, 107, 150, 151, 152, 254**

**Music 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 125, 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, 210**

**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, 271**

### 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 or 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, Computer Science, Physics or Atmospheric Science

## Associate in Science Transfer Degree-Option 2 (AST-2) – 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 1 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.

#### B. 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, 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, &220, 238, 245, 265, 266

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

**Drama** &101, 102, 111, 151, 152, 153, 154, 157

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

**Film** 120, 121, 122, 191

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

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

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

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

**Journalism** 101, 107, 150, 151, 152, 254

**Music** 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 125, 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, 210

**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, 271

### 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:

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

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

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

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

#### D. 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** 120, &131, 132, &141, 145

**Engineering** 106, 120, 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 **or** 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-Option 2-Major Related Programs (AST-2) – 109 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 109-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.*

### C. 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, 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, 266**

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

**Drama & 101, 102, 111, 151, 152, 153, 154, 157**

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

**Film 120, 121, 122, 191**

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

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

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

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

**Journalism 101, 107, 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, 210**

**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, 271**

## 3. SPECIFIC REQUIREMENTS (59 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 22 credits from the following:*

**Computer Science 120  
Engineering 100, 106, 120, & 214, & 215, & 225**

*D. Select 16 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**

## 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 Computer or Electrical Pre-Engineering

Associate in Science Transfer Degree-Option 2-Major Related Programs (AST-2/MRP) – 98 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 98-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, 130, 133, 135, 212,**

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

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

**Communication Studies &102, &210, &220, 212, 215, &230, 238, 245, 265, 266**

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

**Drama &101, 102, 111, 151, 152, 153, 154, 157**

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

**Film 120, 121, 122, 191**

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

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

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

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

**Journalism 101, 107, 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, 210**

**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, 271**

## 3. SPECIFIC REQUIREMENTS (53 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 12 credits

**Computer Science 120 Engineering 100, 106, 120, &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 and Chemical Pre-Engineering

Associate in Science Transfer Degree-Option 2-Major Related Programs (AST-2/MRP) – 104-105 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 104-105 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.*

### C. 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, 130, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257**

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

**Communication Studies**

&102, &210, &220, 212, 215, &230, 238, 245, 265, 266

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

**Drama** &101, 102, **111, 151, 152, 153, 154, 157**

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

**Film** 120, 121, 122, 191

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

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

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

**Journalism** 101, 107, 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

### D. 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, 210

**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, 271

## 3. SPECIFIC REQUIREMENTS (59-60 credits)

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

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

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

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

*l. Select at least 15 credits from the following list after consultation with an engineering advisor.*  
**Biology** &100  
**Chemistry** &263\*  
**Computer Science** 120, &131, 132, &141, **or** 145  
**Engineering** 100, 120, &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.

## Early Childhood Education and Diversity Studies

### Associate in Applied Science-Transfer (AAS-T)

95-99 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 four-year institutions.

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 others 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:

All transfer degrees, have basic requirements for graduation:

- Completion of 90 applicable college level quarter credit hours
- GRC 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 GRC

**Contacts:** Diana Holz, ext. 4334  
dholz@greenriver.edu

Dept./No.	Course Title	Credits
<b>Basic Skills Requirements:</b>		
#Engl& 101	English Composition	(5)
#Cmst& 220	Public Speaking	(5)
#Math	Completion of Math course for which Math 097 or higher is a prerequisite	(5)

#### Lab Science Requirements:

Select 5 credits from the following list of lab science courses:

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	Physics Non-Science Majors with Lab	(5)
Phys& 114	General Physics I with Lab	(5)
Phys& 115	General Physics II with Lab	(5)
Phys& 116	General Physics III 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 I with Lab	(5)
Phys& 222	Engineering Physics II with Lab	(5)
Phys& 223	Engineering Physics III with Lab	(5)

#### Diversity Studies Requirements: 25

Select 5 credits from the following list of diversity studies courses:

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

#### and

Select an additional 20 credits from the following courses to satisfy the 25 credits of Diversity Studies requirements:

Ames 150	Race and Ethnicity in the Pacific Northwest	(5)
Anth& 206	Cultural Anthropology	(5)
Anth& 210	Indians of North America	(5)
CJ 220	Multicultural Diversity in Criminal Justice	(5)
Cmst 238	Intercultural Communication	(5)
Cmst 265	Introduction to Popular Culture	(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 the Myths of the World	(5)
Engl 168	Introduction to Irish Literature	(5)
Engl 247	American Ethnic Literature	(5)
Engl 248	African-American Literature	(5)
Engl 249	U.S. Latino Literature	(5)
Engl& 256	World Literature III: 19th-21st Century	(5)
Engl 257	Non-Western World Literature	(5)
Film 121	Contemporary American Films	(5)
Film 191	Latin America in Film	(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 Culture Through Literature	(5)
Human 191	Latin America in Film	(5)
Human 224	Women and World Religions	(5)
Phil 206	Gender and Philosophy	(5)
Phil 238	Introduction to Philosophy of Human Rights	(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)

#### Early Childhood Education Core Requirements: 50-53

Eced& 105	Introduction to Early Childhood Education	5
Eced& 107	Health, Safety and Nutrition	5
#Eced& 120	ECE Practicum 1: Nurturing Relationships	2
Eced& 160	Curriculum Development in ECE	5
Eced& 170	Environments-Young Child	3
Eced& 180	Language and Literacy Development	3
Eced& 190	Observation and Assessment	3
Educ& 115	Child Development	5
Educ& 150	Child, Family, Community Relationships	3
Educ& 130	Guiding Behavior	3
#Educ 210	Assisting Practicum	3-6
Educ 240	Multicultural/Anti-Bias Issues in Education	5
Eced/Educ	Electives	5

## Natural Resources

### Associate in Pre-Professional Degree

98 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.

Natural Resources instructor advising required for this degree, due to the irregularities of different college and university requirements.

**Contacts:** Monica Paulson Priebe      Rob Sjogren, ext. 4582  
[mpriebe@greenriver.edu](mailto:mpriebe@greenriver.edu)      [rsjogren@greenriver.edu](mailto:rsjogren@greenriver.edu)

Dept./No.	Course Title	Credits
<i>A minimum of 98 credits must be earned from the following categories:</i>		

#### Natural Resources core classes:

GIS 192	GIS for Natural Resources	5
Natrs 100	Introduction to Natural Resources	5
Natrs 180	Natural Resources Measurements	5
Natrs 182	Aerial Photo, GIS and Forest Navigation	8
Natrs 183	Tree and Shrub Identification	5
Natrs 186	Bio-Invasions: Invasive Species Management	4
Natrs 210	Introduction to Soils	5

#### English—required: (10 credits)

Engl& 101	English Composition	5
Engl 128	Research Writing: Science/Engineering/Business	5

#### Humanities—required: (20 credits)

Cmst& 220	Public Speaking	5
Cmst& 230	Small Group Communication	5
Phil 115	Critical Thinking	5
Phil 243	Environmental Ethics	5

#### Mathematics—minimum of 5 credits from the following: (5 credits)

Math& 141	Precalculus I	(5)
Math& 142	Precalculus II	(5)
Math& 151	Calculus I	(5)
Math& 152	Calculus II	(5)
Math 256	Statistics for Business and Social Science	(5)

#### Science—minimum of 15 credits from the following: (15 credits)

Biol110	Northwest Ecology	(5)
Biol& 211	Majors Cellular	(6)
Biol& 212	Majors Animal	(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 Majors in the Lab	(5)
Geol& 208	Geology of the Northwest	(5)

#### Social Science—minimum of 5 credits from the following: (5 credits)

Econ& 201	Micro Economics	(5)
Econ& 202	Macro Economics	(5)
Geog 120	Introduction to Physical Geography	(5)
Soc& 101	Introduction to Sociology	(5)

#### Wellness (1 credit)

P E 113	Group Dynamic Activities (taken concurrently with Natrs 182)	(1)
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#### Additional Credits (5 credits)

Bus 202	Introduction to Project Management	(5)
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## Hispanic Studies

### Academic Certificate

20 Credits

This certificate program is a 20-credit interdisciplinary certificate. The program fosters awareness, knowledge and understanding of the Hispanic world. It offers the student an opportunity to engage in a concentrated study of the diverse culture, art, language and history of Mexico, Central and South America, the Caribbean, Hispanic North America and Spain. Given the continued importance of Latin America to the United States and the increasing population of Hispanics in the United States, this focused program of study will be advantageous to those students entering the job market as well as transfer students.

Students may enter this certificate program during any quarter. A 2.5 GPA is required for those courses applied to this certificate.

**Note:** *This certificate does not qualify for federal financial aid or veteran's funding, unless the certificate or course is applied towards an Associate in Arts or Associate Development degree.*

**Contact:** Marisela Fleites-Lear, ext. 4409  
[mfleites-lear@greenriver.edu](mailto:mfleites-lear@greenriver.edu)

Dept./No.	Course Title	Credits
<b>Required Course:</b>		
Hist 233	History of Latin America	5
Span& 222	Spanish V	5

#### Additional Courses: **Select 10 credits from the following courses: 10**

Engl 249	U.S. Latino Literature	(5)
Hist 228	Latinos in the United States	(5)
Human 190	Latin American Culture Through Literature	(5)
Human 191	Latin America in Film	(5)
Span& 223	Spanish VI	(5)



# DEGREES AND CERTIFICATES PROGRAMS

## PROFESSIONAL/TECHNICAL DEGREES

### NEW PROFESSIONAL/TECHNICAL DEGREES AND CERTIFICATES

#### Aeronautical Science - Flight Operations Aviation Operations Management Bachelor of Applied Science Degree 180 Credits

Aeronautical Science Bachelor of Applied Science (BAS) degree has two options, Flight Operations and Aviation Operations Management.

The Flight Operations track is a follow on for the Commercial Pilot Associate in Applied Science (AAS) which has two distinct components:

- Commercial Pilot - Fixed Wing option for fixed wing flight operations
- Commercial Pilot - Rotor Wing option for rotor wing flight operations

The Aeronautical Science BAS Aviation Operations Management track includes five flight-support AAS degrees:

- Airline Dispatch
- Air Traffic Control
- Airport Management
- Air Transportation
- Unmanned Aerial Systems (UAS)

Coursework for Junior and Senior Levels in the Aeronautical Science BAS program includes upper division core requirements (300 and 400 level classes). A student attending full-time, enrolled in approximately 15 credits per quarter, will be able to complete the upper division portion of the Aeronautical Science BAS program in 6-8 quarters.

- AVIA denotes an aviation academic class. FLT denotes an aviation flight training class. FOFW is for Fixed Wing pilots, FORW is for Rotor Wing pilots. Aviation Operations Management BAS Students can take FO classes as electives
- The asterisk (\*) indicates a class requiring actual flight training. The carat sign (^) Indicates a course that satisfies an FAA Requirement for Restricted Air Transport Pilot (RATP) Certification.

This degree program prepares students for entry level jobs as commercial pilots in the aviation industry. Flight programs require a commitment from students. Gaps in training should be avoided at all costs. Students should plan on flying at least twice per week. The academic schedule can be found at [www.greenriver.edu](http://www.greenriver.edu). Students entering this program must possess a valid 2nd class medical (1st class preferred for students pursuing an ATP certificate) certificate prior to commencing flight training. These medical certificates are issued by FAA designated medical examiners. In addition all students must meet the requirements of the Federal Aviation Administrations under CFR Title 14, Part 61.123.

The student will be responsible for attending the scheduled flight lesson. Any missed appointments will be handled individually per the flight schools policies. No retakes of a failed course will be allowed due to poor attendance. Any cancellations beyond the control of the student and flight school will be discussed with Green River's faculty staff to determine if any violation of policies has occurred.

If a student is unable to complete the class within the academic schedule for the registered quarter as shown in the published class schedule, the student must bring this problem to the attention of the flight school staff and Green River's faculty, as this may affect future funding for subsequent classes. If student is found not progressing at a normal rate, a meeting between the flight school instructor and Green River's faculty will occur to determine the cause of the problem and possible solution. Student will be expected to address any possible problems regarding flight training with Green River's faculty as soon as possible. Cancellations must be made in advance of the scheduled time. Students will make every effort to cancel flight and ground lessons per the respective flight school's policy. No-shows will result in the aircraft and/or flight instructor being released 15 minutes into the scheduled time. The student will be responsible for the cost of the lesson scheduled.

The student will have to complete the class within the academic schedule for the quarter in which the student registers. The student must complete this class satisfactorily before he/she can sign up subsequent flight classes in the degree program. Each flight class can be failed once, in the event the student fails two flight classes resulting in two "F's," he/she will no longer be allowed to continue in the flight program!

In the case where a student gets an "I," the "incomplete" can only be carried over for thirty days, after which if the course requirements are not completed, the "incomplete" will become an "F". Per the Veteran's Administration, an "incomplete" is only given in the case of weather and mechanical cancellations. Incompletes may also be given for extreme circumstances, other than weather and mechanicals, and may be considered on a case by case basis. Final grades for the flight class will be based on the individual class grading policies stated in the class syllabus.

**Contacts:** George Comollo, ext. 4336 [gcomollo@greenriver.edu](mailto:gcomollo@greenriver.edu) Chris Ward, Ext. 4337 [cward@greenriver.edu](mailto:cward@greenriver.edu)  
Jerry Wolfe, ext. 4339 [jwofe@greenriver.edu](mailto:jwofe@greenriver.edu)

Dept./No.	Course Title	Credits
<b>General Education Requirements (60 credits)</b>		
<b>Communication Skills</b>		
Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communication or Public Speaking or Small Group Communication	5
Engl 335 and Engl& 101 or Engl 126 or Engl 127 or Engl 128	Advanced Technical Writing and English Composition or Writing: Humanities or Writing: Social Science Research Writing: Science/Engineering/ Business	10
<b>Quantitative/Symbolic Reasoning Skills</b>		
Math 106 or Math& 107 or Math 108 or Math& 141 or higher	Essentials of Precalculus Math or Math in Society or Contemporary Math for Information Technology or Precalculus I or higher	5
<b>Humanities</b>		
Cmst 338 or Phil 412	Diversity in the Workplace or Five credits from the list of humanities, fine arts or English courses from the AA-DTA degree Professional Ethics	5 5
<b>Natural Sciences</b>		

Five credits from the list of natural science courses with a lab from the AA-DTA degree 5  
 Ten credits from the list of natural science courses from List A or List B from the AA-DTA degree 10

**Social Sciences**

Ten credits from the list of social science courses approved from the AA-DTA degree. 10

**Additional General Education**

Five credits from the list of courses from the humanities, fine arts or English, social science, and natural science 5

**Core Requirements – Flight Operations (53 credits)**

^Avia 300	Certified Flight Instructor Ground School	3
^Avia 316	Advanced Instrument Ground School	5
^Avia 320	Multi-Engine, Turbine and Advanced Cockpit	
^Avia 330	Certified Flight Instructor-Multi-Engine Turbine and and Advanced Cockpit Technologies Ground School	3
Avia 360	General Aviation Operations Management	5
^Avia 370	Aviation Safety Management System	5
Avia 375	ICAO Operations Standards	5
Avia 400	Airlines Operations Management	5
Avia 410	Aviation and Aircrew Resource Management	5
Avia 490	Capstone: Aviation Research Projects	3
*^Flt 311	Certified Flight Instructor-Instructor Flight 1	2
*^Flt 312	Certified Flight Instructor-Instructor Flight 2	1
*^Flt 321	Multi-Engine Operations Flight	1
*^Flt 324	Turbine Operations Flight	1
*^Flt 326	Advanced Cockpit Technologies Flight	1
*^Flt 331	Certified Flight Instructor-Multi-Engine Flight	2
*^Flt 334	Certified Flight Instructor-Turbine Flight	1
*^Flt 336	Certified Flight Instructor-Commercial Pilot	1
*^Flt 338	Certified Flight Instructor-Instrument Flight Procedures	

**Core Requirements – Aviation Operations Management (43 credits)**

Avia 360	General Aviation Operations Management	5
^Avia 370	Aviation Safety Management System	5
Avia 375	ICAO Operations Standards	5
Avia 380	Aviation Business Management and Marketing	5
Avia 385	Airport Planning and Operations Management	5
Avia 400	Airlines Operations Management	5
Avia 410	Aviation and Aircrew Resource Management	5
Avia 430	Aviation Economics and the Global Economy	5
Avia 490	Capstone: Aviation Research Projects	3

**Additional Credits**

- For the **Flight Operations BAS**, students must take 67 credits of transferrable courses 100 level or higher to total 180 credits. 67
- For the **Aviation Operations Management BAS**, students must take 77 credits of transferrable courses 100 level or higher to total 180 credits. 77

**Airport Management**  
**Associate in Applied Science Degree**  
 123 Credits

Aviation and business courses form the core of this program. This degree prepares students for entry level jobs at airports of all sizes across the United States and is a platform for transition to a four year college offering higher level degrees in airport management, aviation management and other jobs in the aviation industry.

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

**Contacts:** George Comollo, ext. 4336 [gcomollo@greenriver.edu](mailto:gcomollo@greenriver.edu)  
 Chris Ward, Ext. 4337 [cward@greenriver.edu](mailto:cward@greenriver.edu)  
 Jerry Wolfe, ext. 4339 [jwofe@greenriver.edu](mailto:jwofe@greenriver.edu)

Dept./No.	Course Title	Credits
Acct 110 or Acct& 201	Practical Financial Accounting 1 or Principles of Accounting I	5

Avia 103	Aviation History and Careers	5
Avia 110	Airline Operations	5
Avia 111	Private Pilot Ground School	5
Avia 112	Aircraft System	5
Avia 123	Aviation Weather	5
Avia 128	Basic Weather Observation	3
Avia 190	FAA Next Generation Technologies	5
Avia 210	Aviation and the Law	5
#Avia 214	Airport Management and Operations	5
Avia 216	Basic Instrument Pilot Ground School	5
Avia 217	Aviation Security	5
Avia 265	Aircraft Flight Dispatch	10
Avia 267	International Flight Planning and ETOPS	5
#Avia 270 or	Air Traffic Control Basics or	
Avia 281	Air Traffic Control 1	5
Avia 282	Air Traffic Control 2	5
Bus 121 or	Marketing Fundamentals	5
Bus 164	Entrepreneurship and Small Business Management	5
#Engl& 101 or	English Composition or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/ Business	5
#Cmst& 210 or	Interpersonal 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	Micro Economics or	
Econ & 202	Macro Economics	5
#Math 106 or	Essentials of PreCalculus Mathematics or	
Math& 107 or	Math in Society or	
Math 108 or	Contemporary Math for Information Technology or	
Math& 141 or	Precalculus I or higher	5
Science	Any Science course 100 level or higher	5

*Students must take 10 credits from the following list of courses below to total 123 credits:*

Aviation Electives:

Avia 101	Aviation Fundamentals	5
Avia 177 or	Aviation Work Experience 1 or	
Avia 178 or	Aviation Work Experience 2 or	
Avia 179	Aviation Work Experience 3	1-10
Avia 211	Aerodynamics for Pilots	5
Avia 212	Human Factors and Safety	5
Avia 217	Aviation Security	5

Non-Aviation Electives:

Any computer class 100 level or higher	1-5
Any GIS class 100 level or higher	1-5
Any Science class 100 level or higher	1-5
Any Business class 100 level or higher	1-5
Any Humanities class 100 level or higher	1-5
Coop 171, Work Experience Seminar	1

# Satisfies related instruction requirements.

**State Short Early Childhood Education**  
**Certificate of Specialization-Administration**  
**(Statewide)**  
 Certificate of Proficiency  
 20 Credits

The Early Childhood Education (ECE) Short Certificate builds on the Initial Certificate as the second "stackable certificate." All Short Certificates provide the foundation for the ECE Washington State Credential and the ECE Associate in Applied Arts Degree. Completion of the Short Certificate places students on Level 6 of the Washington State Career Lattice.

**Contacts:** Diana Holz, ext. 4334 [dholz@greenriver.edu](mailto:dholz@greenriver.edu) Leslie Kessler, ext. 4555 [lkessler@greenriver.edu](mailto:lkessler@greenriver.edu)

Dept./No.	Course Title	Credits
Eced& 105	Introduction to Early Childhood Education	5
Eced& 107	Health, Safety and Nutrition	5
Eced& 120	ECE Practicum 1: Nurturing Relationships	2
Educ& 115	Child Development	5

**Area of Specialization:**

Eced& 139	Administration of Early Learning Programs	3
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## State Short Early Childhood Education Certificate of Specialization-Family Child Care (Statewide) Certificate of Proficiency 20 Credits

The Early Childhood Education (ECE) Short Certificate builds on the Initial Certificate as the second "stackable certificate." All Short Certificates provide the foundation for the ECE Washington State Credential and the ECE Associate in Applied Arts Degree. Completion of the Short Certificate places students on Level 6 of the Washington State Career Lattice.

**Contacts:** Diana Holz, ext. 4334      Leslie Kessler, ext. 4555  
[dholz@greenriver.edu](mailto:dholz@greenriver.edu)      [lkessler@greenriver.edu](mailto:lkessler@greenriver.edu)

Dept./No.	Course Title	Credits
Eced& 105	Introduction to Early Childhood Education	5
Eced& 107	Health, Safety and Nutrition	5
Eced& 120	ECE Practicum 1: Nurturing Relationships	2
Educ& 115	Child Development	5

**Area of Specialization:**

Eced& 134	Family Child Care	3
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## State Short Early Childhood Education Certificate of Specialization-Infants and Toddlers (Statewide) Certificate of Proficiency 20 Credits

The Early Childhood Education (ECE) Short Certificate builds on the Initial Certificate as the second "stackable certificate." All Short Certificates provide the foundation for the ECE Washington State Credential and the ECE Associate in Applied Arts Degree. Completion of the Short Certificate places students on Level 6 of the Washington State Career Lattice.

**Contacts:** Diana Holz, ext. 4334      Leslie Kessler, ext. 4555  
[dholz@greenriver.edu](mailto:dholz@greenriver.edu)      [lkessler@greenriver.edu](mailto:lkessler@greenriver.edu)

Dept./No.	Course Title	Credits
Eced& 105	Introduction to Early Childhood Education	5
Eced& 107	Health, Safety and Nutrition	5
Eced& 120	ECE Practicum 1: Nurturing Relationships	2
Educ& 115	Child Development	5

**Area of Specialization:**

Eced& 132	Infant and Toddlers-Nurturing Care	3
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## State Short Early Childhood Education Certificate of Specialization-School Age Care (Statewide) Certificate of Proficiency 20 Credits

The Early Childhood Education (ECE) Short Certificate builds on the Initial Certificate as the second "stackable certificate." All Short Certificates provide the foundation for the ECE Washington State Credential and the

ECE Associate in Applied Arts Degree. Completion of the Short Certificate places students on Level 6 of the Washington State Career Lattice.

**Contacts:** Diana Holz, ext. 4334      Leslie Kessler, ext. 4555  
[dholz@greenriver.edu](mailto:dholz@greenriver.edu)      [lkessler@greenriver.edu](mailto:lkessler@greenriver.edu)

Dept./No.	Course Title	Credits
Eced& 105	Introduction to Early Childhood Education	5
Eced& 107	Health, Safety and Nutrition	5
Eced& 120	ECE Practicum 1: Nurturing Relationships	2
Educ& 115	Child Development	5

**Area of Specialization:**

Eced& 136	School-Age Care	3
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## Information Technology - Software Development Bachelor of Applied Science (BAS) 180 Credits

The Bachelor of Applied Science in Information Technology-Software Development is designed to prepare students for employment in a variety of software development positions, such as software developer, software test developer, systems analyst, quality assurance analyst, mobile application developer, and web developer. Successful graduates of the program should be able to:

- Develop stable, robust, secure, and efficient code following best practices in data design and software construction.
- Communicate with project stakeholders, both with technical and non-technical backgrounds.
- Troubleshoot technical defects from identification through resolution.
- Perform software quality assurance activities throughout the entire software lifecycle.
- Engage in professional development activities as assigned in various core courses to develop networks and industry contacts and stay updated with technical trends.
- Write technical documentation to support software lifecycle activities.
- Perform related technical duties such as analyzing data, estimating work effort, and assessing technical risks.
- Engage in courses and projects that will support and promote understanding, acceptance, and proactive partnership with diverse populations in both the program and in the workplace.

Students must attain a cumulative GPA of at least 2.5 on all college-level courses.

### Entry Requirements:

To enter this program, students must have a technical associate's degree in an IT-related field from a regionally accredited institution that includes at least 20 credits of general education courses. A cumulative GPA of 2.5 from all college courses is required. Students must have earned a minimum grade of 2.5 in all technical (CS/IT) courses.

The following courses, or their equivalents, are strongly recommended before entering this program because they contain foundational knowledge upon which the upper-division courses build:

- CS& 131 Computer Science I C++ or CS& 141 Computer Science I Java
- CS 132 C++ Data Structures or CS 145 Java 2
- IT 131 Networking Fundamentals
- IT 160 Windows Server Administration I
- IT 190 Linux Administration I
- IT 201 Database Fundamentals
- IT 282 Android Application Development

For more information about this degree please contact the Green River IT faculty at [itdegrees@greenriver.edu](mailto:itdegrees@greenriver.edu)

Dept./No.	Course Title	Credits
<b>General Education Requirements (60 credits)</b>		
<b>Communication Skills (15 credits)</b>		
Engl& 101	English Composition	5
Cmst& 210 or Cmst& 230 or	Interpersonal Communication or Small Group Communication or	
Engl 128	Research Writing: Science/Engineering/Business	5
Engl 335	Advanced Technical Writing	5
<b>Quantitative/Symbolic Reasoning Skills (15 credits)</b>		
CS& 131 or CS& 141	Computer Science I C++ or Computer Science I Java	5
CS 132 or CS 145	C++ Data Structures or Java 2	5
Math& 141 or Math& 142 or Math 147 or	Precalculus I or Precalculus II or Finite Mathematics: Business and Social Science or	
Math& 148 or Math& 151 or Math& 152 or Math 210 or Math 240 or Math 256	Business Calculus or Calculus I or Calculus II or Discrete Mathematics or Topics in Linear Algebra or Statistics for Business and Social Science	5
<b>Humanities (10 credits)</b>		
Art 109 or Cmst& 220	Beginning Design or Public Speaking	5
Cmst 338	Diversity in the Workplace	5
<b>Social Sciences (10 Credits)</b>		
Social Science elective		
Ten credit course from the list of Social Science courses approved for the AA-DTA degree		
<b>Natural Sciences (10 credits)</b>		
Phys& 110 or	Concepts of the Physical World (recommended) or	
Five credit course from List A of the Natural Science courses approved for the AA-DTA degree		
Natural Science or		
Five credit course from List A of the Natural Science courses approved for the AA-DTA degree		
Math& 148 or Math& 151 or Math& 152 or Math 210 or Math 240 or Math 256	Business Calculus or Calculus I or Calculus II or Discrete Mathematics or Topics in Linear Algebra or Statistics for Business and Social Science	5
<b>Core Requirements (55 credits)</b>		
IT 301	Systems Programming	5
IT 305	Web Development Frameworks	5
IT 328	Full Stack Web Development	5
IT 333	Data Structures and Algorithm Analysis	5
IT 355	Agile Development Methods	5
IT 372	Debugging, Maintenance, and Evolution	5
IT 405	Mobile Development Frameworks	5
IT 426	Collaborative Design	5
IT 434	Secure Development Practices	5
IT 485	Product Initiation and Design	5
IT 486	Product Construction and Deployment	5
<b>Technical Electives (20 credits)</b>		
20 credits from CS or IT courses at the 100-level or higher		
<b>Electives (45 credits)</b>		
45 credits from any courses at the 100-level or higher		

## Maintenance Mechatronics

### Associate in Applied Science Degree

95-102 Credits

This degree program is designed for both the new student entering the field of machine maintenance and for the current maintenance employee who wishes to learn more about the knowledge and skills currently in demand by employers.

A graduate of the program will be prepared for entry into the maintenance field as a maintenance technician or assistant. Instruction covers the basic energy types that animate and/or control machinery. These energy types are mechanical energy (solids), hydraulics, pneumatics and electrical. The student will become familiar with machinery components that conduct, control and apply the various energy types, their related graphic symbols, and the blueprints and schematics which utilize them for graphic communication.

The courses will examine, explain and utilize basic analytical methods and concepts that are critical to safely and efficiently work in the dynamic high energy world of industrial machinery.

Credit for hours of training is usually granted to those entering an approved apprenticeship program.

Entry into the program at any time is possible on a space-available basis with instructor's permission.

**Contact:** Pat Pritchard, ext. 4261  
[ppritchard@greenriver.edu](mailto:ppritchard@greenriver.edu)

Dept./No.	Course Title	Credits
# Acomp 100T or Math 072	Computations for the Trades or Elementary Algebra or Eligible for Math 097	0-5
Btac 100	Fundamentals of Computers	5
Btac 111	Personal Computing 3	
*#Bus 166 or Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst 238	Human Relations and Work Readiness or Fundamentals of Written Communication or Interpersonal Communication or Public Speaking or Intercultural Communication	5
*#Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst& 230	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication	5
# Engl& 101 or Engl 109	English Composition or Writing for Trades and Professional/Technical Degrees	5
Indus 102.1	Welding Survey 1 3	
Mfg 101 or AAM 101	Introduction to Manufacturing and Machining or Principles of Precision Machining 1	13
Mfg 115	Reading Engineering Drawings	2
Mfg 162 or I E 189	Applied Materials for Manufacturing or Basic Metallurgy 2-4	
Mtx 100	Maintenance Mechatronics 1	13
Mtx 110	Maintenance Mechatronics 2	13
Mtx 120	Maintenance Mechatronics 3	13
Mtx 130	Maintenance Mechatronics 4	13

# Satisfies related instruction requirements.

\* Students who are planning to take Cmst 100, Cmst& 210, or Cmst& 220 will **only** be able to count it as either fulfilling the Oral Communication or the Human Relations credit requirement of the Related Instruction requirements.

## Marketing and Entrepreneurship Bachelor of Applied Science Degree (BAS) 180 Credits

Green River Community College's Bachelor of Applied Science (BAS) in Marketing and Entrepreneurship will provide graduates with the skills and abilities to perform market research, product development, product management, digital marketing and e-commerce, promotions development and management, sales and business development, and project management. Students will also learn supporting business topics such as accounting, business planning, and operations. In addition, graduates of this degree program will be prepared to start and grow new ventures.

This degree is designed to prepare students for employment in a variety of marketing positions, including: market research analyst, marketing specialist, business analyst, product manager, sales representative, and social media manager. The skills learned in this degree can be applied in organizations ranging from small startups to large, well-established businesses.

The BAS in Marketing and Entrepreneurship enables individuals with associate's degrees to combine their lower-division technical or transfer preparation with upper-division credits in business, marketing and entrepreneurship. The result is a practical, application-oriented, Bachelor's degree. The BAS in Marketing and Entrepreneurship also combines the breadth and academic rigor required for students who wish to continue their studies at the Master's level.

**Entry Requirements:** The entry requirements for the BAS in Marketing and Entrepreneurship program provide access to students from both academic transfer and career and technical programs. These entry requirements also ensure that prospective students are prepared for success once they enter the program. Entry requirements are:

- AAA, AAS or AAS-T degree with a cumulative GPA of 2.5 or better  
**OR**  
AA, AB, or AS degree with a cumulative GPA of 2.5 or better
- Completion of Math at the 097 level or higher (5 credits with a grade of 2.5 or better)
- Completion of Engl& 101 (5 credits with a grade of 2.5 or better)

**Contact:** For more information about this degree, please contact either of the following:

Tim Broxholm, Ext. 4377  
[tbroxholm@greenriver.edu](mailto:tbroxholm@greenriver.edu)

Jeff Perlot, Ext. 4865  
[jperlot@greenriver.edu](mailto:jperlot@greenriver.edu)

Dept. No.	Course Title	Credits
<b>Core Requirements (55 credits)</b>		
Bus 310	Market Research and Analytics	5
Bus 335	Integrated Marketing Communications	5
Bus 340	Project Management	5
Bus 344	Entrepreneurial Finance	5
Bus 350	Product Development and Innovation	5
Bus 360	Sales and Negotiations	5
Bus 385	Operations Management for Competitive	5
Bus 390	Digital Marketing	5
Bus 395	Strategic Marketing and Management	5
Bus 460	Venture Launch 1	5
Bus 490	Venture Launch 2	5

### Communication Skills (10 credits)

Engl& 101	English Composition	5
Engl 335	Advanced Technical Writing	5

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

Math& 141 or	Pre-Calculus	5
Math 147	Finite Mathematics: Business & Social Science	5

### Humanities (10 credits)

Phil 412	Professional Ethics	5
Cmst& 210 or	Interpersonal Communications or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communications	5

### Social Sciences (10 credits)

Bus 365	Consumer Behavior	5
Five credits from the list of Social Science courses approved for the AA-DTA degree. Bus& 101 recommended.		5

### Natural Sciences (10 credits)

Five credits lab science from Natural Science List A for the AA-DTA degree		5
Math 256	Statistics for Business and Social Science	5

### Additional General Education (15 credits)

15 credits from Humanities/Fine Arts/English, Social Science, or Natural Science courses approved for the AA-DTA degree		15
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Additional credits from an Associate's degree or equivalent credits in business-related field.

*Students must attain a cumulative GPA of at least 2.0 on all courses.*

## Medical Front Office Certificate 54-59 Credits

This certificate program provides students an opportunity to develop essential medical front office/reception skills. After completing the program students will be qualified to secure employment as a medical front office receptionist in an entry level position. Students in this program must complete each class with a grade of 2.0 or higher. Many of these credits may be applied to other Business Technologies and Administrative Careers degree programs. Students may enter this program at the beginning of any quarter.

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[lsimpson@greenriver.edu](mailto:lsimpson@greenriver.edu)

Julie Slettvet, ext. 4687  
[jslettvet@greenriver.edu](mailto:jslettvet@greenriver.edu)

Tonya McCabe, ext. 4783  
[tmccabe@greenriver.edu](mailto:tmccabe@greenriver.edu)

Shannon Sharpe, ext.4378  
[ssharpe@greenriver.edu](mailto:ssharpe@greenriver.edu)

Dept/No.	Course Title	Credits
Btac 100	Fundamentals of Computers	5
*Btac 102	Intermediate Keyboarding	5
#Btac 110	Business Math Applications	5
Btac 112 or	Beginning Word or	
Btac 255	Advanced Word	5
Btac 125	Medical Terminology for Office Administration	5
#Btac 130	Business Correspondence	5
Btac 132	Business Communication Applications	5
Btac 177 and	BTAC Work Experience 1 and	3
Coop 171	Work Experience Seminar	1
#Btac 245	Medical Office Procedures	5
#Bus 166	Human Relations and Work Readiness	5
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220	Public Speaking	5
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test score) or completion of Read 094 Advantage	5 0-5

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

Acct 110	Practical Financial Accounting 1	5
Btac 101	Beginning Keyboarding	5
Btac 107 and/or	Typing Speed and Accuracy 1 and/or	
Btac 108	Typing Speed and Accuracy 2	2
*Btac 111	Introduction to Computer Literacy	5
Btac 112 or	Beginning Word or	
Btac 255	Advanced Word	5
*Btac 115	Professional Image Building	5
Btac 140	Records Management	5
Btac 150	Introduction to Windows	5
Btac 162 or	Introduction to Excel or	
Btac 163	Advanced Excel	5
Btac 175	Instructor Assistant	1-5
Btac 185	Introduction to Microsoft Access	5
Btac 214	Introduction to Information Security	5

Btac 250	Office Relations and Procedures	5
Bus& 101	Introduction to Business	5

# Satisfies related instruction requirements.

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

° Qualifies as AA-DTA activity credit.

## Phlebotomy Technician Certificate of Proficiency

10-12 Credits

This certificate program prepares students to work as a member of the health care team as a phlebotomist in the clinical/lab setting. Course content includes the phlebotomy history, laboratory setting / personnel, legal and ethical concerns, infection control standards and preventive steps, CPR/First Aid, circulatory system, anatomy and physiology, medical terminology, proper body mechanics, various blood drawing techniques, safety aspects of phlebotomy, complications of phlebotomy, handling of non-blood specimens and OSHA safety standards.

Students will be eligible to take the national board exam upon satisfactory completion of the program.

### Admission Requirements

- Must be at least 18 years old
- Must take the COMPASS test before entering program or being placed on the pre-registration list.
- Must have high school diploma or high school equivalency certificate
- Communication involving patient care in the clinical setting is critical to patient safety. All students shall be fluent in the English language, including verbal and written language.
- Students must complete and pass a Nationwide criminal background check within 3 months prior to admission into the program at [certifiedbackground.com](http://certifiedbackground.com)
- Students must meet vaccination and program specific health requirements in compliance with the Centers for Disease Control Healthcare Provider immunization guidelines, including the submission of original lab results, x-ray reports and immunization records which are dated and signed by their healthcare provider.
- Health insurance, both injury and sickness is required for participation in the program
- Current (within one year) evaluation by a physician or nurse practitioner to ensure student and patient safety. The evaluation should address the following areas in respect to the student's ability to perform the laboratory skills and clinical responsibilities related to becoming a Phlebotomy Technician:
- Ability to stand for long periods.

**Contact:** Elaine Stefanowicz, ext. 2812  
[estefanowicz@greenriver.edu](mailto:estefanowicz@greenriver.edu)

Dept./No.	Course Title	Credits
Phleb 101	Fundamentals of Phlebotomy	
Phleb 102	Phlebotomy Laboratory Skills	
Phleb 103	Phlebotomy Technician Practicum	
Nurse 127	Aids/CPR Safety/Inspection Control <b>or</b> 7 hours of HIV, CPR, HIPPA and privacy training*	

\* Training **must** be completed through the American Heart Association. Students must provide proof of completion from the American Heart Association.

## Unmanned Aerial Systems Associate in Applied Science Degree

90 Credits

This degree will introduce the student to the world of unmanned aerial vehicles (UAS) and will allow direct transfer to the University of North Dakota to become an UAS operator. Students in this program must be a United States citizen.

This degree will introduce the student to the world of unmanned aerial vehicles (UAS) and will allow transfer to the University of North Dakota to become an UAS operator under their program guidelines. Students wishing to transfer to the University of North Dakota must be United States citizens. At least a second class medical will be required for those students wishing to take flight training as part of their elective classes.

Flight programs require a commitment from students. Gaps in training should be avoided at all costs. Students should plan on flying at least twice per week. The academic schedule can be found at [www.greenriver.edu](http://www.greenriver.edu) and the following rules apply:

The student will be responsible for attending the scheduled flight lesson. Any missed appointments will be handled individually per the flight schools policies. No retakes of a failed course will be allowed due to poor attendance. Any cancellations beyond the control of the student and flight school will be discussed with Green River's faculty staff to determine if any violation of policies has occurred.

If a student is unable to complete the class within the academic schedule for the registered quarter as shown in the published class schedule, the student must bring this problem to the attention of the flight school staff and Green River's faculty, as this may affect future funding for subsequent classes. If student is found not progressing at a normal rate, a meeting between the flight school instructor and Green River's faculty staff will occur to determine the cause of the problem and possible solution. Student will be expected to address any possible problems regarding flight training with Green River's faculty staff as soon as possible. Cancellations must be made in advance of the scheduled time. Students will make every effort to cancel flight and ground lessons per the respective flight school's policy. No-shows will result in the aircraft and/or flight instructor being released 15 minutes into the scheduled time. The student will be responsible for the cost of the lesson scheduled.

The student will have to complete the class within the academic schedule for the quarter in which the student registers. The student must complete this class satisfactorily before he/she can sign up subsequent flight classes in the degree program. Each flight class can be failed once, in the event the student fails two flight classes resulting in two "F's," he/she will no longer be allowed to continue in the flight program!

In the case where a student gets an "I," the "incomplete" can only be carried over for thirty days, after which if the course requirements are not completed, the "incomplete" will become an "F". Per the Veteran's Administration, an "incomplete" is only given in the case of weather and mechanical cancellations. Incompletes may also be given for extreme circumstances, other than weather and mechanicals, and may be considered on a case by case basis. Final grades for the flight class will be based on the individual class grading policies stated in the class syllabus.

**Contacts:** George Comollo, ext. 4336 0-2 [gcomollo@greenriver.edu](mailto:gcomollo@greenriver.edu) Chris Ward, Ext. 4337 [cward@greenriver.edu](mailto:cward@greenriver.edu)

Jerry Wolfe, ext. 4339  
[jwolfe@greenriver.edu](mailto:jwolfe@greenriver.edu)

Dept./No.	Course Title	Credits
Avia 103	Aviation History and Careers	5
Avia 109	Introduction to Unmanned Aerial Systems	5
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 129	Unmanned Aerial Vehicle Basics	5
Avia 211	Aerodynamics for Pilots	5
Avia 212	Aviation Safety and Human Factors	5
Avia 229	Unmanned Aerial Vehicle Operations	5
#Avia 270 <b>or</b> Avia 281	Air Traffic Control Fundamentals <b>or</b> Air Traffic Control 1	5

Avia 282	Air Traffic Control 2	5
#Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communications or Public Speaking or Small Group Communication	5
#Engl& 101 or Engl 126 or Engl 127 or Engl 128	English Composition or Writing: Humanities or Writing: Social Science or Research Writing: Science/Engineering/ Business	5
Humanities	Any Humanities course 100 level or higher	5
#Math 106 or Math& 107 or Math 108 or	Essentials of Pre-Calculus Math or Math in Society or Contemporary Math for Information Technology or	5
Math& 141 or higher	Precalculus I or higher	5
Natural Science	Any Science course 100 level or higher with a lab	5

**Suggested Electives:** Select 15 credits from the following list of courses below to total 90 credits:

Avia 101	Aviation Fundamentals	2
Avia 110	Airline Operations	5
Avia 128	Basic Weather Observation	3
Avia 177-179	Aviation Work Experience 1-3	1-10
Avia 210	Aviation and the Law	5
Avia 216	Basic Instrument Pilot Ground School	5
Avia 218	Commercial Pilot Ground School	5
Flt 111-112	Private Pilot Flight 1-2	2
Flt 113	Private Pilot Flight 3	1
Computer/IT	Any computer/IT course 100 level or higher	1-5
*Engl 236	Creative Writing I	5
Math	Any Math course 100 level or higher	1-5
*Math 148	Business Calculus	5
Science	Any Science course 100 level or higher	1-5
Coop 171	Work Experience Seminar	1

\* NOTE: These courses are required for students transferring to the University of North Dakota UAV Bachelor degree program, but are not required for students remaining at Green River to be in the BAS Aeronautical Science degree at Green River College.

# Satisfies related instruction requirements.

## Unmanned Aerial Systems (UAS) Operator Certificate of Proficiency

35 Credits

This certificate will provide the student with all the required knowledge to become a UAS/UAV operator as required by the Federal Aviation Administration. It also provides expanded knowledge in many areas of aviation to provide a more solid background.

**Contacts:** George Comollo, ext. 4336      Chris Ward, Ext. 4337  
[gcomollo@greenriver.edu](mailto:gcomollo@greenriver.edu)      [cward@greenriver.edu](mailto:cward@greenriver.edu)

Dept./No.	Course Title	Credits
Avia 109	Introduction to Unmanned Aerial Systems	5
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 129	Unmanned Aerial Systems Basics	5
Avia 211	Aerodynamics	5
Avia 229	Unmanned Aerial Systems Operations	5
Avia 270 or Avia 281	Air Traffic Control Basics or Air Traffic Control 1	5

## Unmanned Aerial Systems (UAS) Basic Operator

### Certificate of Proficiency

15 Credits

This certificate will provide the student with all the basic required knowledge to become a UAS/UAV operator as required by the Federal Aviation Administration.

**Contacts:** George Comollo, ext. 4336      Chris Ward, Ext. 4337  
[gcomollo@greenriver.edu](mailto:gcomollo@greenriver.edu)      [cward@greenriver.edu](mailto:cward@greenriver.edu)

Dept./No.	Course Title	Credits
Avia 109	Introduction Unmanned Aerial Systems	5
Avia 129	Unmanned Aerial Systems Basics	5
Avia 229	Unmanned Aerial Vehicle Operations	5

## REVISED PROFESSIONAL/TECHNICAL DEGREES AND CERTIFICATES

### 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.

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

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
Btac 100	Fundamentals of Computers	5
†Btac 101	Beginning Typing/Keyboarding	5
Btac 110	Business Math Applications	5
Btac 162	Introduction to Excel	5
Btac 163	Advanced Excel	5
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
Bus& 201 or Pols& 200	Business Law or Introduction to Law and Commerce	5

#### Related Instruction Requirements

#B A 145	Business Computation	5
#Btac 130 or Engl 109 or	Business Correspondence or Writing for Trades and Career/Technical Degrees or	5
Engl& 101 or Engl 126 or Engl 127 or Engl 128	English Composition 1 or Writing: Humanities or Writing: Social Sciences or Research Writing: Science/Engineering/ Business	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
#Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst& 230	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication	5
Reading	Eligible for Read 104, Reading Mastery	0-5

**Suggested Electives:** Select from the following courses to total 90 credits:

Any Acct course	(5)
Any B A course	(5)
Any Btac Course	(5)
Any Bus Course	(5)
Any Math Course	(5)
Coop 171	Work Experience Seminar (1)
Econ 100	Economic Principles and Applications (5)
Econ& 201	Micro Economics (5)
Econ& 202	Macro Economics (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.

† Btac 101; Beginning Typing/Keyboarding may be waived by passing a 5-minute typing test at 35 wpm with 5 or less errors using the proper touch typing techniques.

**Notes:** Elective credits may be used to meet the minimum degree credit requirements.

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.

## Accounting Certificate of Proficiency 40 Credits

For the student who desires early employment, or wishes to add specialty credentials to an already earned degree. Green River offers a course of instruction culminating in an Accounting certificate. (Tech Prep students may articulate into this program as a continuation of training started in high school qualified programs.) 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.

**Contact:** Paul Mueller, ext. 2635  
pmueller@greenriver.edu

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 121	Payroll Accounting 5	
Bus& 101 or	Introduction to Business or	
Bus 164	Entrepreneurship and Small Business Management	5
Btac 100	Fundamentals of Computers	5
Btac 110	Business Math Applications	5
Btac 162	Introduction to Excel	5

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

**Keyboarding requirement:**

Keyboarding may be demonstrated by passing a 5-minute typing test at 35 wpm with 5 or less errors using the proper touch typing techniques.

Students unable to meet the minimum typing speed required may take Btac 101 to fulfill the keyboarding requirement.

## Administrative Assistant 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 to offer a comprehensive general education. Placement in courses depends on the student's prior education and experience. Earning an Administrative Assistant degree will prepare the student for employment as an office worker in an entry level position. Students in this program must complete each class with a grade of 2.0 or higher. This program meets related instruction requirements for the Associate in Applied Arts degree. Students may enter this program at the beginning of any quarter.

**Contacts:** Lea Ann Simpson, ext. 4393 [simpson@greenriver.edu](mailto:simpson@greenriver.edu)  
Julie Slettvet, ext. 4687 [slettvet@greenriver.edu](mailto:slettvet@greenriver.edu)  
Tonya McCabe, ext. 4783 [tmccabe@greenriver.edu](mailto:tmccabe@greenriver.edu)  
Shannon Sharpe, ext. 4378 [ssharpe@greenriver.edu](mailto:ssharpe@greenriver.edu)

Dept./No.	Course Title	Credits
Lifetime Fitness/Wellness/ Activity	Any course listed under the AA degree Lifetime Fitness/Wellness/Activity area	1+
Btac 100	Fundamentals of Computers	5
*Btac 101	Beginning Keyboarding	5
*Btac 102	Intermediate Keyboarding	5
Btac 103	Advanced Keyboarding	5
#Btac 110	Business Math Applications	5
Btac 112 or	Beginning Word or	
Btac 255	Advanced Word	5
#Btac 130	Business Correspondence	5
Btac 132	Business Communication Applications	5
Btac 140	Records Management	5
Btac 150	Introduction to Windows	5
Btac 162 or	Introduction to Excel or	
Btac 163 or	Advanced Excel or	
Btac 255	Advanced Word	5
Btac 177	Btac Work Experience 1	3
Btac 214	Introduction to Information Security	5
#Btac 250	Office Relations and Procedures	5
Btac 266	Inside Microsoft Office	5
#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
Coop 171	Work Experience Seminar	1
Reading	Eligible for Read 104 (as determined by the COMPASS test score) or completion of Read 094	0-5

**Suggested Electives:** Select from the following to total 90 credits.

Acct 110 or	Practical Financial Accounting 1 or	
Btac 090	Office Accounting	5
Acct 112	QuickBooks for Accounting	5
*Btac 107 and/or	Typing Speed and Accuracy 1 and/or	
° Btac 111	Introduction to Computer Literacy	5
°Btac 115	Professional Image Building	1
Btac 163	Advanced Excel	5
Btac 170.1 or	Beginning Keyboarding-Alphabet Keys or	
Btac 170.2 or	Keyboarding-Mastering 10-Key and Symbols or	
Btac 170.3	Keyboarding-Speed and Accuracy-Skill Building 1	
Btac 171.1 or	PowerPoint: Preparing a Presentation or	
Btac 171.2 or	PowerPoint: Designs with Graphics and Multimedia or	
Btac 171.3	PowerPoint: Customize and Incorporate Web Features	1
Btac 173.1 or	Word: Create, Edit and Format Documents or	
Btac 173.2 or	Word: Tables and Sharing Documents or	
Btac 173.3 or	Word: Mail Merges and Other Productivity Tools or	
Btac 173.4 or	Word: Create a Newsletter or	
Btac 173.5	Word: Creating Forms, Macros and Document	
Btac 174.2 or	Excel: Charts and Working with Large Worksheets or	
Btac 174.3 or	Excel as a Database or	
Btac 174.4 or	Excel: Data Consolidation and What-If Analysis or	
Btac 174.5	Excel: Collaboration, the Web and Macros	1
Btac 175	Instructor Assistant	1-5
Btac 176.1 or	Access: Create and Modify a Database or	
Btac 176.2 or	Access: Use Queries to Produce Information or	



Btac 176.3 or Btac 176.4	Access: Create and Modify Forms or Access: Create and Modify Reports	1
Btac 178-179	Business Technologies and Administrative Careers Work Experience 2-3	2-10
Btac 184	Internet and Basic Web Design	5
Btac 185	Introduction to Microsoft Access	5
Btac 216	Computer Support Internship 1	5
Btac 255	Advanced Word	5
Bus& 101 or Bus 166	Introduction to Business or Human Relations and Work Readiness	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.

## Advanced Aviation Knowledge Certificate of Proficiency 15 Credits

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

**Contact:** George Comollo, ext. 4336  
gcomollo@greenriver.edu

Dept./No.	Course Title	Credits
<b>First Quarter</b>		
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
<b>Second Quarter</b>		
Avia 218	Commercial Pilot Ground School	5

## Aerospace and Advanced Manufacturing- Precision Machining 1 Certificate of Proficiency 13 Credits

**Contact:** Tom Tagliente, ext. 4261  
[ttagliente@greenriver.edu](mailto:ttagliente@greenriver.edu)

Dept./No.	Course Title	Credits
AAM 101 or Mfg 101	Principles of Precision Machining 1 or Introduction to Machining and Manufacturing	13

## Aerospace and Advanced Manufacturing - Precision Machining 2 Certificate of Proficiency 13 Credits

**Contact:** Tom Tagliente, ext. 4261  
[ttagliente@greenriver.edu](mailto:ttagliente@greenriver.edu)

Dept./No.	Course Title	Credits
AAM 102 or Mfg 103	Principles of Precision Machining 2 or Conventional and Computer Numerical Control(CNC) Machining Level 1	13

## Aerospace and Advanced Manufacturing- Quality Assurance and Inspection Certificate of Proficiency 28 Credits

**Contact:** Terry Waagan, ext. 4342 Bus 164 Entrepreneurship  
[twaaagan@greenriver.edu](mailto:twaaagan@greenriver.edu)

Dept./No.	Course Title	Credits
AAM 105	Quality Assurance 1	7
AAM 106	Quality Assurance 2	7
AAM 107	Inspection 1	7
AAM 108	Inspection 2	7

## Air Traffic Control Associate in Applied Science Degree 113 Credits

Green River College is a Federal Aviation Administration-Air Traffic College Training Initiative (FAA AT-CTI) school. Completing the ATC degree does NOT assure the FAA will hire the Green River AT-CTI Graduate. Green River has no influence over the FAA hiring process.

**Contacts:** George Comollo, ext. 4336 [gcomollo@greenriver.edu](mailto:gcomollo@greenriver.edu) Chris Ward, Ext. 4337 [cward@greenriver.edu](mailto:cward@greenriver.edu)

Dept./No.	Course Title	Credits
Avia 103	Aviation History and Careers	5
Avia 110	Airline Operations	5
Avia 111	Private Pilot Ground School	5
Avia 112	Aircraft Systems	5
Avia 123	Aviation Weather	5
Avia 128	Basic Weather Observation	3
Avia 190	FAA Next Generation Technologies	5
Avia 211	Aerodynamics for Pilots	5
Avia 212	Human Factors and Safety	5
#Avia 214	Airport Management and Operations	5
Avia 216	Basic Instrument Pilot Ground School	5
Avia 265	Airline Dispatch	10
Avia 267	International Flight Planning and ETOPS	5
#Avia 281	Air Traffic Control 1	5
#Avia 282	Air Traffic Control 2	5
#Avia 286	Air Traffic Control 3-Enroute ATC	5
#Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communication or Public Speaking or Small Group Communication	5
#Engl& 101 or Engl 126 or Engl 127 or Engl 128	English Composition I or Writing: Humanities or Writing: Social Science or Research Writing: Science/Engineering/ Business	5
#Math 106 or Math& 107 or Math& 108 or Math& 141 or higher	Essentials of PreCalculus Mathematics or Math in Society or Contemporary Math in Information Technology or Math& 141 or higher	5
Natural Science	Any Science course 100 level or higher with a lab	5

Students must take 10 credits from the following list of courses below to total 113 credits:

Aviation Electives:		
Avia 101	Aviation Fundamentals	5
Avia 177 or Avia 178 or Avia 179	Aviation Work Experience 1 or Aviation Work Experience 2 or Aviation Work Experience 3	1-10
Avia 210	Aviation and the Law	5
Avia 217	Aviation Security	5
Non-Aviation Electives:		
Any computer class 100 level or higher		5

Any GIS class 100 level or higher	5
Any Science class 100 level or higher	5
Any Business class 100 level or higher	5
Any Humanities class 100 level or higher	5
Coop 171, Work Experience Seminar	1

# Satisfies related instruction requirements.

## Air Transportation Associate in Applied Science Degree 115 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, airport maintenance and airport management careers.

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

**Contacts:** George Comollo, ext. 4336      Chris Ward, Ext. 4337  
[gcomollo@greenriver.edu](mailto:gcomollo@greenriver.edu)      [cward@greenriver.edu](mailto:cward@greenriver.edu)

Dept./No.	Course Title	Credits
Acct 110 or Acct& 201	Practical Financial Accounting 1 or Principles of Accounting I	5
Avia 103	Aviation History and Careers	5
Avia 110	Airline Operations	5
Avia 111	Private Pilot Ground School	5
Avia 112	Aircraft Systems	5
Avia 123	Aviation Weather	5
Avia 190	FAA Next Generation Technologies	5
Avia 210	Aviation and the Law	5
Avia 214	Airport Management and Operations	5
Avia 216	Instrument Pilot Ground School	10
Avia 217	Aviation Security	5
Avia 265	Aircraft Flight Dispatch	10
Avia 267	International Flight Planning	5
#Avia 270 or Avia 281 or Avia 282	Air Traffic Control Fundamentals or Air Traffic Control 1 or Air Traffic Control 2	5
Bus 121 or Bus 164	Marketing Fundamentals or Entrepreneurship and Small Business Management	5
Cmst& 210 or Cmst& 220 or Cmst 230	Interpersonal Communication or Public Speaking or Small Group Communication	5
Econ 100 or Econ& 201 or Econ& 202	Economic Principles and Applications or Microeconomics or Macroeconomics	5
#Engl& 101 or Engl 126 or Engl 127 or Engl 128	English Composition I or Writing: Humanities or Writing: Social Science or Research Writing: Science/Engineering/Business	5
Math 106 or Math& 107 or Math 108 or Math& 141 or higher	Essentials of PreCalculus Math or Math in Society or Contemporary Math for Information Technology or Any Science course 100 level or higher with a lab	5

Students must take 10 credits from the following list of courses below to total 115 credits:

<b>Aviation Electives:</b>		
Avia 101	Aviation Fundamentals	5
Avia 128	Aviation Weather Observer	3
Avia 177 or Avia 178 or Avia 179	Aviation Work Experience 1 or Aviation Work Experience 2 or Aviation Work Experience 3	1-10
Avia 211	Aerodynamics for Pilots	5
Avia 212	Human Factors and Safety	5
Avia 217	Aviation Security	5

<b>Non-Aviation Electives:</b>		
Any Computer class		1-5
Any GIS class 100 level or higher		1-5

Any Science class 100 level or higher	1-5
Any Business class 100 level or higher	1-5
Any Humanities class 100 level or higher	1-5
Coop 171, Work Experience Seminar	1

## Airline Dispatcher Completion Certificate of Proficiency 30 Credits

The program prepares individuals with no background in aviation for the FAA Aircraft Dispatcher practical examination. This examination must be taken within 90 days of graduation.

**Contacts:** George Comollo, ext. 4336      Chris Ward, Ext. 4337  
[gcomollo@greenriver.edu](mailto:gcomollo@greenriver.edu)      [cward@greenriver.edu](mailto:cward@greenriver.edu)

Dept./No.	Course Title	Credits
<b>First Quarter</b>		
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 216	Basic Instrument Pilot Ground School	5
<b>Second Quarter</b>		
Avia 270 or Avia 281	Air Traffic Control Fundamentals or Air Traffic Control 1 5	10
Avia 265	Airline Dispatch	10

## Airport and Air Transportation Management Certificate of Proficiency 30 Credits

**Contacts:** George Comollo, ext. 4336      Chris Ward, Ext. 4337  
[gcomollo@greenriver.edu](mailto:gcomollo@greenriver.edu)      [cward@greenriver.edu](mailto:cward@greenriver.edu)

Dept./No.	Course Title	Credits
Avia 110	Airline Operations	5
Avia 111	Private Pilot Ground School	5
Avia 214	Airport Management and Operations	5
Avia 216	Basic Instrument Pilot Ground School	5
Avia 217	Aviation Security	5
Avia 270	Air Traffic Control Fundamentals	5

## Basic Aviation Knowledge Certificate of Proficiency 10 Credits

This certificate program prepares individuals with no background in aviation for the FAA Private Pilot written exam.

**Contacts:** George Comollo, ext. 4336      Chris Ward, Ext. 4337  
[gcomollo@greenriver.edu](mailto:gcomollo@greenriver.edu)      [cward@greenriver.edu](mailto:cward@greenriver.edu)

Dept./No.	Course Title	Credits
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5

5

## 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 each class 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.

**Contacts:** Lea Ann Simpson, ext. 4393  
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[jslettvet@greenriver.edu](mailto:jslettvet@greenriver.edu)

Tonya McCabe, ext. 4783  
[tmccabe@greenriver.edu](mailto:tmccabe@greenriver.edu)

Shannon Sharpe, ext.4378  
[ssharpe@greenriver.edu](mailto:ssharpe@greenriver.edu)

Dept./No.	Course Title	Credits
Lifetime Fitness/Wellness/Activity	Any courses under the AA degree Lifetime Fitness/Wellness/Activity Area	1+
Btac 100	Fundamentals of Computers	5
* Btac 101	Beginning Typing/Keyboarding	5
# Btac 110	Business Math Applications	5
Btac 112	Beginning Word	5
#Btac 130	Business Correspondence	5
Btac 132	Business Communication Applications	5
Btac 140	Records Management	5
Btac 150	Introduction to Windows	5
Btac 162	Introduction to Excel	5
Btac 163	Advanced Excel	5
Btac 184 or IT 121	Internet and Basic Web Design or Introduction to HTML	5
Btac 185	Introduction to Microsoft Access	5
Btac 214	Introduction to Information Security	5
Btac 216	Computer Support Internship 1	2-5
# Btac 250	Office Relations and Procedures	5
Btac 255	Advanced Word	5
Btac 266	Inside Microsoft Office	5
#Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst& 230	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication	5
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test score) or 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 or Acct& 201 or Btac 090	Practical Financial Accounting 1 or Principles of Accounting I or Office Accounting	5
Acct 112	QuickBooks for Accounting	5
* Btac 102	Intermediate Keyboarding	5
Btac 103	Advanced Keyboarding	5
Btac 107 and/or Btac 108	Typing Speed and Accuracy 1 and/or Typing Speed and Accuracy 2	4-8
° Btac 111	Personal Computing	3
° Btac 115	Professional Image Building	1
Btac 132	Business Communication Applications	5
Btac 163	Advanced Excel	5
Btac 170.1 or Btac 170.2 or Btac 170.3	Beginning Keyboarding-Alphabet Keys or Keyboarding-Mastering 10-Key and Symbols or Keyboarding-Speed and Accuracy-Skill Building	1
Btac 171.1 or Btac 171.2 or Btac 171.3	PowerPoint: Preparing a Presentation or PowerPoint: Design with Graphics and Multimedia or PowerPoint: Customize and Incorporate Web Features	1
Btac 173.1 or Btac 173.2 or Btac 173.3 or	Word: Create, Edit and Format Documents or Word: Tables and Sharing Documents or Word: Mail Merges and Other Productivity Tools or	

Btac 173.4 or Btac 173.5	Word: Create a Newsletter or Word: Creating Forms, Macros and Document Security	1
Btac 174.1 or Btac 174.2 or	Excel: Introduction to Formulas and Functions or Excel: Charts and Working with Large Worksheets or	
Btac 174.3 or Btac 174.4 or	Excel as a Database or Excel: Data Consolidation and What-If Analysis or	
Btac 174.5	Excel: Collaboration, the Web and Macros	1
Btac 175	Instructor Assistant	1-5
Btac 176.1 or Btac 176.2 or Btac 176.3 or Btac 176.4	Access: Create and Modify a Database or Access: Use Queries to Produce Information or Access: Create and Modify Forms or Access: Create and Modify Reports	1
†Btac 177-179 and Coop 171	Work Experience 1-3 and Work Experience Seminar	2-10 1
Btac 217	Computer Support Internship 2	2-5
Btac 218	Basic Office PC Support	5
Btac 219	Basic Networking Concepts	5
Btac 255	Advanced Word	5
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	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 Technologies and Administrative Careers degree program. Students in this program must complete each class with a grade of 2.0 or higher.

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Shannon Sharpe, ext.4378  
[ssharpe@greenriver.edu](mailto:ssharpe@greenriver.edu)

Dept./No.	Course Title	Credits
Btac 100	Fundamentals of Computers	5
Btac 110	Business Math Applications	5
Btac 112	Beginning Word	5
#Btac 130	Business Correspondence	5
Btac 132	Business Communication Applications	5
Btac 140	Records Management	5
Btac 150	Introduction to Windows	5
Btac 162	Introduction to Excel	5
Btac 163	Advanced Excel	5
Btac 184 or IT 121	Internet and Basic Web Design or Introduction to HTML	5
Btac 185	Introduction to Microsoft Access	5
Btac 250	Office Relations and Procedures	5
Btac 255	Advanced Word	5
Btac 266	Inside Microsoft Office	5
#Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst& 230	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication	5
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test score) or	

completion of Read 094

0-5

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 people hard of hearing 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 hard of hearing 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.

**Contacts:** Lori Rapozo, ext. 4219  
[lrapozo@greenriver.edu](mailto:lrapozo@greenriver.edu)

Sidney Weldele-Wallace, ext.4705  
[sweldele@greenriver.edu](mailto:sweldele@greenriver.edu)

Dept./No.	Course Title	Credits
#B A 145 or	Business Computation or	
Btac 110 or	Business Math Applications or	
Math 072	Eligible for Math 072	0-5
Btac 109	Legal Terminology	3
#Btac 130 or	Business Correspondence or	
Engl& 101 or	English Composition 1 or	
Engl 109	Writing for Trades and Career/Technical Degrees	5
Btac 125 or	Medical Terminology for Office Administration or	
Engl 108	Medical Terminology	2-5
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst 217 or	Communication for Business and Professions 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	12-16
Crpt 133	Machine Shorthand – 100 wpm	12-16
Crpt 134	Machine Shorthand – 120 wpm	12-16
Crpt 135	Machine Shorthand – 140 wpm	12-16
Crpt 136	Machine Shorthand – 160 wpm	12-16
#Crpt 153	Court Reporting Procedures 1	5
Crpt 201	Machine Shorthand – 180 wpm	12-16
Crpt 202	Machine Shorthand – 200 wpm	12-16
Crpt 203	Machine Shorthand – 225 wpm	12-16
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
Eced 220	Introduction to Sign Language	2

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

Acct 110	Practical Financial Accounting 1	5
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**Suggested Electives:** Students may select from the following list of courses below to total a minimum of 75-80 credits.

Acct 110 or	Practical Financial Accounting 1 or	
Acct& 201 or	Principles of Accounting I or	
Btac 090	Office Accounting	5
Acct 112	QuickBooks for Accounting	5
Art 109	Beginning Design	5
Btac 101	Beginning Typing/Keyboarding	5
* Btac 102	Intermediate Keyboarding	5
Btac 103	Advanced Keyboarding	5
Btac 107 and/or	Typing Speed and Accuracy 1 and/or	
Btac 108	Typing Speed and Accuracy 2	4-8
°Btac 111	Personal Computing	3
° Btac 115	Professional Image Building	1
Btac 132	Business Communication Applications	5
Btac 163	Advanced Excel	5
Btac 170.1 or	Beginning Keyboarding-Alphabet Keys or	
Btac 170.2 or	Keyboarding-Mastering 10-Key and Symbols or	
Btac 170.3	Keyboarding-Speed and Accuracy-Skill Building	1
Btac 171.1 or	PowerPoint: Preparing a Presentation or	
Btac 171.2 or	PowerPoint: Design with Graphics and Multimedia or	
Btac 171.3	PowerPoint: Customize and Incorporate Web Features	1
Btac 173.1 or	Word: Create, Edit and Format Documents or	
Btac 173.2 or	Word: Tables and Sharing Documents or	
Btac 173.3 or	Word: Mail Merge and Other Productivity Tools or	
Btac 173.4 or	Word: Create a Newsletter or	
Btac 173.5	Word: Creating Forms, Macros and Document Security	1
Btac 174.1 or	Excel: Introduction to Formulas and Functions or	
Btac 174.2 or	Excel: Charts and Working with Large Worksheets or	
Btac 174.3 or	Excel as a Database or	
Btac 174.4 or	Excel: Data Consolidation and What-If Analysis or	
Btac 174.5	Excel: Collaboration, the Web and Macros	1
Btac 175	Instructor Assistant	1-5
Btac 176.1 or	Access: Create and Modify a Database or	
Btac 176.2 or	Access: Use Queries to Produce Information or	
Btac 176.3 or	Access: Create and Modify Forms or	
Btac 176.4	Access: Create and Modify Reports	
Btac 177-179 and	Work Experience 1-3 and	2-10
Coop 171	Work Experience Seminar	1
Btac 214	Introduction to Information in Security	5
Btac 216	Computer Support Internship 1	2-5
Btac 217	Computer Support Internship 2	2-5
Btac 218	Basic Office PC Support	5
Btac 219	Basic Networking Concepts	5
Btac 255	Advanced Word	5
Bus& 101 or	Introduction to Business or	
Bus 164	Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	5

# Satisfies related instruction requirements.

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

° Qualifies as AAA activity credit

## Captioning- Computer Reporting Technologies Sequence A

**Associate in Applied Arts Degree**  
170-208 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 with hearing loss viewers through realtime technology that instantly produces

Btac 100	Fundamentals of Computers	5
Btac 107 or	Typing Speed and Accuracy 1 or	5
Btac 108 or	Typing Speed and Accuracy 2 or	
* Typing test	60 wpm with less than 5 errors	0-4
Btac 184	Internet and Basic Web Design	5
Btac 266	Inside Microsoft Office	5
Bus 103	Business Leadership	5
Bus& 201 or	Business Law or	
Pols& 200	Introduction to Law	5
Crpt 255	Computer-Aided Transcription-Advanced	3
Engl 106	Vocabulary Mastery	5
Info 110	Information Literacy and Research Skills	2

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

Btac 112	Beginning Word	5
Btac 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 Technologies and Administrative Careers Department.*

## Captioning Computer Reporting Technologies Sequence B

### Associate in Applied Arts Degree

115-152 Credits

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Sidney Weldele-Wallace, ext.4705  
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Dept./No.	Course Title	Credits
#B A 145 or	Business Computation or	
Btac110 or	Business Math Applications or	
Math 072	Eligible for Math 072	0-5
#Btac 130 or	Business Correspondence or	
Engl& 101 or	English Composition or	
Engl 109	Writing for Trades and Professional/Technical Degrees	5
Btac 109	Legal Terminology	3
Btac 125	Medical Terminology for Office Administration	5
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst 217 or	Communication for Business and Professions 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 or	Court Reporting Procedures 1 or	
Cmst 217	Communication for Business and Profession	5
Crpt 154	Court Reporting Procedures 2	5
Crpt 177-179 and	Court Reporting/Captioning Work Experience 1-3 and	
Coop 171	Work Experience Seminar	2-6
Crpt 202	Machine Shorthand – 200 wpm	12-16
Crpt 203	Machine Shorthand – 225 wpm	12-16
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

Eced 220	Introduction to Sign Language	2
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**To enhance the student's preparation for future employment, the following are recommended:**

Acct 110	Practical Financial Accounting 1	(5)
Btac 100	Fundamentals of Computers	(5)
Btac 107 or	Typing Speed and Accuracy 1 or	
Btac 108 or	Typing Speed and Accuracy 2 or	
* Typing test	60 wpm with less than 5 errors	(0-4)
Btac 184	Internet and Basic Web Design	(5)
Btac 266	Inside Microsoft Office	(5)
Bus 103	Business Leadership	(5)
Bus& 201 or	Business Law or	
Pols& 200	Introduction to Law	(5)
Crpt 255	Computer-Aided Transcription-Advanced	(3)
Engl 106	Vocabulary Mastery	(5)
Info 110	Information Literacy and Research Skills	(2)

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

Btac 112	Beginning Word	(5)
Btac 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 Technologies and Administrative Careers Department.*

## Court Reporting – Computer Reporting Technologies – Sequence A

### Associate in Applied Arts Degree

175-217 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 percent 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 percent 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 percent accuracy and two with 96 percent 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

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Sidney Weldele-Wallace, ext.4705  
[sweldele@greenriver.edu](mailto:sweldele@greenriver.edu)

Dept./No.	Course Title	Credits
#B A 145 or	Business Computation or	
Btac 110 or	Business Math Applications or	
Math	Eligible for Math 072	0-5
Btac 109	Legal Terminology	3
#Btac 130 or	Business Correspondence or	
Engl 109 or	Writing for Trades and Career/Technical Degrees or	
Engl& 101	English Composition I	5
Btac 125	Medical Terminology for Office Administration	5
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst 217 or	Communication for Business and Professions 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	10-12
Crpt 133	Machine Shorthand – 100 wpm	10-16
Crpt 134	Machine Shorthand – 120 wpm	12-16
Crpt 135	Machine Shorthand – 140 wpm	12-16
Crpt 136	Machine Shorthand – 160 wpm	12-16
#Crpt 153	Court Reporting Procedures 1	5
#Crpt 154	Court Reporting Procedures 2	5
Crpt 177-179 and	Court Reporting/Captioning Work Experience	2-6
Coop 171	and Work Experience Seminar	1
Crpt 201	Machine Shorthand – 180 wpm	12-16
Crpt 202	Machine Shorthand – 200 wpm	12-16
Crpt 203	Machine Shorthand – 225 wpm	12-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Engl 105	Grammar and Usage	5

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

Acct 110	Practical Financial Accounting	(5)
Btac 100	Fundamentals of Computers	(5)
Btac 107 or	Typing Speed and Accuracy 1 or	
Btac 108	Typing Speed and Accuracy 2 or	
* Typing Test	60 wpm with fewer than 5 errors	(0-4)
Btac 184	Internet and Basic Web Design	(5)
Btac 266	Inside Microsoft Office	(5)
Bus& 201	Business Law	(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.)*

Btac 112	Beginning Word	(5)
Btac 140	Records Management	(5)
Btac 150	Introduction to Windows	(5)
Btac 162	Introduction to Excel	(5)
Btac 255	Advanced Word	(5)
CJ& 101	Introduction to Criminal Justice	(5)
CJ& 240	Introduction 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 Technologies and Administrative Careers Department.

**Court Reporting-  
Computer Reporting Technologies –  
Sequence B  
Associate in Applied Science Degree  
112-145 Credits**

Dept./No.	Course Title	Credits
#B A 145 or	Business Computation or	
Bus E 110 or	Business Math Applications or	
Math	Eligible for Math 072	0-5
Btac 109	Legal Terminology	3
#Btac 130 or	Business Correspondence or	
Engl 109 or	Writing for Trades and Career/Technical	

Degrees or		
Engl& 101	English Composition I	5
Btac 125	Medical Terminology for Office Administration	5
#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst 217 or	Communications for Business and Professions 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	
Coop 171	Work Experience Seminar	1
Crpt 202	Machine Shorthand – 200 wpm	12-16
Crpt 203	Machine Shorthand – 225 wpm	12-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Engl 105	Grammar and Usage	5

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

Acct 110	Practical Financial Accounting 1	5
Bus& 201	Business Law	5
Btac 100	Fundamentals of Computers	5
Btac 107 or	Typing Speed and Accuracy 1 or	
Btac 108	Typing Speed and Accuracy 2 or	
* Typing Test	60 wpm with less than 5 errors	0-4
Btac 184	Internet and Basic Web Design	5
Btac 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.)**

Btac 112	Beginning Word	5
Btac 140	Records Management	5
Btac 150	Introduction to Windows	5
Btac 162	Introduction to Excel	5
Btac 255	Advanced Word	5
CJ& 101	Introduction to Criminal Justice	5
CJ& 240	Introduction 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 Technologies and Administrative Careers Department.

~ Indicates that the minimum number of credits is only applicable during summer quarter.

**Commercial Pilot  
Fixed Wing Pilot Option 108-110 Credits  
Helicopter Pilot Option 114-116 Credits  
Associate in Applied Science Degree**

The Commercial Pilot Degree program prepares students for entry level jobs as commercial pilots in the aviation industry. Flight programs require a commitment from students. Gaps in training should be avoided at all costs. Students should plan on flying at least twice per week. The academic schedule can be found at [www.greenriver.edu](http://www.greenriver.edu). Students may enter the program at the beginning of any quarter and must possess a valid 2nd class medical (1st class preferred for students pursuing an ATP certificate)

certificate prior to commencing flight training. These medical certificates are issued by Federal Aviation Administration designated medical examiners. In addition all students must meet the requirements of the FAA under CFR Title 14, Part 61.123.

The student will be responsible for attending the scheduled flight lesson. Any missed appointments will be handled individually per the flight schools policies. Students who fail a flight course due to poor attendance will not be allowed to retake the course. Any cancellations beyond the control of the student and flight school (i.e. weather, aircraft mechanical problems) will be discussed with Green River's faculty to determine if any violation of policies has occurred.

If a student is unable to complete the class within the academic schedule for the registered quarter as shown in the published class schedule, the student must bring this problem to the attention of the flight school staff and Green River's faculty, as this may affect future funding for subsequent classes. If student is found not progressing at a normal rate, a meeting between the flight school instructor and Green River's faculty will occur to determine the cause of the problem and possible solution. Student will be expected to address any possible problems regarding flight training with Green River's faculty as soon as possible. Cancellations must be made in advance of the scheduled time. Students will make every effort to cancel flight and ground lessons per the respective flight school's policy. No-shows will result in the aircraft and/or flight instructor being released 15 minutes into the scheduled time. The student will be responsible for the cost of the lesson scheduled.

The student will have to complete the class within the academic schedule for the quarter in which the student registers. The student must complete this class satisfactorily before he/she can sign up subsequent flight classes in the degree program. Each flight class can be failed once, in the event the student fails two flight classes resulting in two "F's," he/she will no longer be allowed to continue in the flight program.

In the case where a student gets an "I," the "incomplete" can only be carried over for thirty days, after which if the course requirements are not completed, the "incomplete" will become an "F". Per the Veteran's Administration, an "incomplete" is only given in the case of weather and mechanical cancellations. Incompletes may also be given for extreme circumstances, other than weather and mechanicals, and may be considered on a case by case basis. Final grades for the flight class will be based on the individual class grading policies stated in the class syllabus.

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Chris Ward, Ext. 4337 [cward@greenriver.edu](mailto:cward@greenriver.edu)

Dept./No.	Course Title	
Avia 103	Aviation History and Careers	5
Avia 206 or Avia 110	Helicopter Ground School or Airline Operations	3-5
Avia 111	Private Pilot Ground School	5
Avia 112	Aircraft Systems	5
Avia 123	Aviation Weather	5
Avia 210	Aviation and the Law	5
Avia 211	Aerodynamics for Pilots	5
Avia 212	Aviation Safety and Human Factors-	5
Avia 216	Basic Instrument Pilot Ground School	5
Avia 218	Commercial Pilot Ground School	5
Avia 265	Airline Dispatch	10
#Avia 270 or Avia 281 or Avia 282	Air Traffic Control Fundamentals or Air Traffic Control 1 or Air Traffic Control 2	5
#Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communications or Public Speaking or Small Group Communication	5
#Engl& 101 or Engl 126 or Engl 127 or Engl 128	English Composition I or Writing: Humanities or Writing: Social Science or Research Writing: Science/Engineering/Business	

#Math 106 or Math& 107 or Math 108 or Math& 141 or higher	Essentials of Precalculus I or Math in Society or Contemporary Math for Information Technology or Precalculus I or higher 5
Natural Science	Any 100-level Science course or higher with a lab 5

**Select 15 credits from the following list for the Fixed Wing Pilot Option**

Flt 111	Private Pilot Flight 1	2
Flt 112	Private Pilot Flight 2	2
Flt 113	Private Pilot Flight 3	1
Flt 231	Commercial Pilot Flight 1	2
Flt 232	Commercial Pilot Flight 2	2
Flt 233	Commercial Pilot Flight 3	1
Flt 211	Instrument Pilot Flight 1	2
Flt 212	Instrument Pilot Flight 2	2
Flt 213	Instrument Pilot Flight 3	1

**Select 21 credits from the following list for the Helicopter Pilot Option.**

Flt 161	Private Pilot Helicopter Flight 1	2
Flt 162	Private Pilot Helicopter Flight 2	2
Flt 163	Private Pilot Helicopter Flight 3	1
Flt 261	Instrument Pilot Helicopter Flight 1	2
Flt 262	Instrument Pilot Helicopter Flight 2	2
Flt 263	Instrument Pilot Helicopter Flight 3	1
Flt 271	Commercial Pilot Helicopter Flight 1	2
Flt 272	Commercial Pilot Helicopter Flight 2	2
Flt 273	Commercial Pilot Helicopter Flight 3	1
Flt 281	Instructor Pilot Helicopter Flight 1	2
Flt 282	Instructor Pilot Helicopter Flight 2	1
Flt 291	Instrument Instructor Pilot Helicopter Flight 1	2
Flt 292	Instrument Instructor Pilot Helicopter Flight 2	1

**Students must choose 10 credits from the following list of classes to total credits of 108-110 for the Commercial (Fixed Wing) Pilot Option and 114-116 total credits for the Helicopter (Rotor Wing) Pilot Option.**

**Aviation Electives:**

Avia 101	Aviation Fundamentals	5
Avia 177-179	Aviation Work Experience 1-3	1-10
Avia 190	FAA Next Generation technologies	5
Avia 217	Aviation Security	5

**Non-Aviation Electives**

Any Computer class 100 level or higher	5
Any GIS class 100 level or higher	5
Any Science class 100 level or higher	5
Any Business class level or higher	5
Coop 171, Work Experience Seminar	1

# Satisfies related instruction requirements.

**Credits**

**Criminal Justice**

Associate in Applied Science Degree  
113-114 Credits

This degree program is a broad discipline, encompassing the scientific study of crime, criminals, the criminal justice system, treatment of offenders, and theories of crime causation. It is interdisciplinary in nature, drawing from such fields as psychology, political science, sociology, economics, biology and law. Students are encouraged to participate in the criminal justice. Students should contact a criminal justice advisor in order to create a customized program of study. Many criminal justice students continue their academic careers; some others seek employment with a variety of criminal justice agencies; other students are returning law enforcement officers updating their skills and education.

**Contacts:** Ron Riley, ext. 4859 [riley@greenriver.edu](mailto:riley@greenriver.edu)  
Mary Jane Sherwood, ext. 4387 [mjsherwood@greenriver.edu](mailto:mjsherwood@greenriver.edu)

Dept./No.	Course Title	Credits
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#Cmst& 210	Interpersonal Communication	
#Cmst 230	Small Group Communication	
#Engl& 101	English Composition I	
Engl 109 or	Writing for Trades and Career/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& 107	Math in Society or any college-level Math class	
Natural Science	Select any three courses from at least two separate areas. 10 credits must be from List A, including a minimum of 5 credits from lab sciences. The additional 5 credits can be from List A or List B.	15
P E 101 or	Physical Fitness Lab or	
P E 102 or	Jogging or	(2)
P E 103 or	Total Physical Fitness or	(3)
P E 111 or	Aerobic Walking or	(2)
P E 131 or	Weight Training or	(2)
* P E 149 or	CORE Training for Health or	(2)
P E 160 or	Exercise and Nutrition or	(3)
P E 165 or	Exercise and Health or	(3)
P E 169	Fitness and Health	2-3
P E 113	Group Dynamics Activities	1
Photo 111	Beginning Digital Photography	5
Pols& 101 or	Introduction to Political Science or	
Pols& 202	American Government	5
Psyc& 100	General Psychology	5
Soc& 101	Introduction to Sociology	5

**Required Core Classes:**

CJ& 101	Introduction to Criminal Justice	5
CJ& 105	Introduction to Corrections	5
CJ& 110	Criminal Law	5
CJ 120	Criminal Justice Professions	5
CJ 200	Individual Rights in Criminal Justice	
CJ 205	Criminal Evidence	
CJ 220	Multicultural Diversity in Criminal Justice	5
CJ 236	Community-Oriented Policing	
Soc 215	Survey of Criminology	5

**Suggestive Electives:** Select 5 credits from the following courses to total 113-114 credits.

Anth& 205 or	Biological Anthropology or	
Anth& 236	Forensic Anthropology	
BTAC 100	Fundamentals of Computers	
CJ 115	Fingerprint Science	5
CJ 177-179 and	Criminal Justice Work Experience 1-3 and	
Coop 171	Work Experience Seminar	
CJ& 240	Introduction to Forensic Science	
CJ 294 Special Topics-Criminal Justice		5
CJ 299 Independent Study-Criminal Justice		
Phil 115 or	Reasoning in Everyday Life or	
Phil 160	Introduction to the Philosophy of Science	
Photo 101	Beginning Black and White Photography	
Psyc 209	Fundamentals of Psychological Research	
Soc 245	Juvenile Delinquency	5

# Satisfies related instruction requirements.

**Note:** Students must attain a grade of 2.0 or higher in all CJ classes.

## Criminal Justice - Forensic Technology

Associate in Applied Science Degree  
124-129 Credits

This degree program introduces individuals who wish to gain employment in areas such as police support, crime scene investigations, and fingerprint and trace evidence examination to the field of Forensic Technology. Forensics or criminalistics is concerned with the recognition, identification, individualization, and evaluation of physical evidence using the methods of the natural sciences. Some of the major areas of this specialty include forensic medicine, toxicology, serology, anthropology, and odontology,

trace evidence (hair, fibers, glass, etc.), documentary evidence, ballistics, explosives, accelerates, and fingerprint examination. Students are encouraged to participate in the Criminal Justice Club.

This degree helps prepare students to transfer to a university to continue their education in Forensics. Those interested in transferring to a university should consider this degree as it also satisfies the requirement of the Associate in Arts degree.

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Dept./No.	Course Title	Credits
Activity Credits	Select one course from the approved list of Activity classes listed on the AA-DTA degree	1-5
AP 103	Essentials of Human Anatomy-Physiology 1	5
AP 104	Essentials of Human Anatomy-Physiology 2	5
Biol& 100	Survey of Biology	5
#Cmst& 210	Interpersonal Communication	5
#Cmst 220	Public Speaking	5
#Engl& 101	English Composition I	5
Engl 109 or	Writing for Trades and Career/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& 107	Math in Society or any college-level Math course	5
P E 101 or	Physical Fitness Lab or	(2)
P E 102 or	Jogging or	(2)
P E 103 or	Total Physical Fitness or	(3)
P E 111 or	Aerobic Walking or	(2)
P E 149 or	CORE Training for Health or	(2)
P E 131 or	Weight Training or	(2)
P E 160 or	Exercise and Nutrition or	(3)
P E 165 or	Exercise and Health or	(3)
P E 169	Fitness and Health	(3) 2-3
P E 113	Group Dynamics Activities	1
Phil 240	Introduction to Ethics	5
Photo 101	Beginning Black and White Photography	5
Photo 111	Beginning Digital Photography	5
Pols& 101 or	Introduction to Political Science or	
Pols& 202	American Government	5
Psyc& 100	General Psychology	5
Psyc& 220	Abnormal Psychology	5

**Required core classes:** (30 credits) 5

CJ& 101	Introduction to Criminal Justice	5
CJ& 110	Criminal Law	5
CJ 120	Criminal Justice Professions	5
CJ 115	Fingerprint Science	1
CJ 200	Individual Rights in Criminal Justice	5
CJ 205	Criminal Evidence	5
CJ& 240	Introduction to Forensic Science	5

**Electives,** select any three classes (15 credits maximum)

Anth& 205	Biological Anthropology	5 (5)
BTAC 140	Records Management	5 (5)
BTAC 250	Office Relations and Procedures	5 (5)
CJ& 105	Introduction to Corrections	5 (5)
CJ 120	Criminal Justice Professions	
CJ 177 and	Criminal Justice Work Experience 1 and	(5)
Coop 171	Work Experience Seminar	(1)
CJ 220	Multicultural Diversity in Criminal Justice	(5)
CJ 236	Community-Oriented Policing	
CJ 294	Special Topics-Criminal Justice	
CJ 299	Independent Study-Criminal Justice	(5)
Phil 115 or	Reasoning in Everyday Life or	
Phil 160	Introduction to the Philosophy of Science	(5)
Psyc 209	Fundamentals of Psychological Research	(5)
Soc 215	Survey of Criminology	(5)
Soc 245	Juvenile Delinquency	(5)

# Satisfies related instruction requirements.

**Note:** Students must attain a grade of 2.0 or above in all classes.



# Information Technology: Network Administration and Security

## Bachelor of Applied Science Degree (BAS)

### 180 Credits

This Bachelor of Applied Science degree program is designed to prepare students for employment in a variety of information technology (IT) positions, such as network and computer systems administrators, information security analysts, or computer support specialists.

This degree provides students with the opportunity to acquire a deep technical foundation and competency in network administration and security. Students will learn how to plan, implement, administer, and support appropriate information technologies and systems to help an organization achieve its goals and objectives. Information technologies and systems may include: servers, client computers, mobile devices, operating systems, network applications, local area networks, wide area networks, wireless networks, network segments, intranets, and so on. Students will learn how to analyze the security vulnerabilities of an organization's IT resources, and how to plan and implement security measures and practices for those resources.

Students must attain a cumulative GPA of at least 2.0 on all college-level courses.

#### Entry Requirements:

To enter this program, students must have a technical associate's degree in an IT-related field from a regionally accredited institution that includes at least 45 credits of IT courses and at least 20 credits of general education courses. A cumulative GPA of 2.0 from all college courses is required. Students must have earned a minimum grade of 2.5 in all IT courses.

The following IT courses, or their equivalents, are strongly recommended before entering this program because they contain foundational knowledge upon which the upper-division IT courses build:

- IT 102 Introduction to Programming
- IT 114 CompTIA A+ Certification Preparation
- IT 131 Networking Fundamentals
- IT 160 Windows Server Administration I
- IT 190 Linux Administration I
- IT 210 Introduction to Routing and Switching
- IT 240 Windows Server Administration II

For more information about this degree please contact any one of the following:

For more information about this degree please contact the Green River IT faculty at [itdegrees@greenriver.edu](mailto:itdegrees@greenriver.edu)

Dept./No.	Course Title	Credits
<b>Communication Skills (15 credits)</b>		
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
Engl& 101	English Composition	5
Engl 335	Advanced Technical Writing	5
<b>Quantitative/Symbolic Reasoning Skills (5 credits)</b>		
Math 108 or	Contemporary Math for Information Technology or	
Math& 141 or higher	Precalculus I	5
<b>Humanities (10 credits)</b>		
Cmst 338	Diversity in the Workplace	5
Phil 412	Professional Ethics	5
<b>Social Sciences (10 credits)</b>		
Ten credits from the list of Social Science courses approved for the AA-DTA degree		
		10
<b>Natural Sciences (10 credits)</b>		
Five credits lab science from Natural Science List A for the AA-DTA degree		
		5
Five credits from Natural Science List A or List B for the AA-DTA		

degree. 5

#### Additional General Education (10 credits) 5

Bus 340 Project Management 5  
Five credits from the lists of Humanities/Fine Arts/English, Social Science, or Natural Science courses approved for the AA-DTA degree. 5

#### Core Requirements (50 credits)

IT 310	Routing and Switching in the Enterprise	5
IT 335	Network Security Foundations and Policies	5
IT 340	Network Security and Firewalls	5
IT 344	Virtualization and Storage	5
IT 360	Introduction to Computer Forensics and Vulnerability Assessment	5
IT 385	Scripting for Windows and Linux	5
IT 390	Mobile Devices and Wireless Networking-Enterprise	5
IT 410	Designing and Supporting Computer Networks	5
IT 460	Threat Analysis	5
IT 490	Capstone: Networking and Security	5

#### Information Technology Electives (45 credits)

Information Technology or Computer Science courses numbered 100 or higher 45

#### Electives (25 credits)

25 credits from any courses numbered 100 or higher 25

## Information Technology- Networking

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

90 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 a three-course sequence in Windows Server Administration, a two-course sequence in Linux Administration, and two courses on key networking topics: Networking Fundamentals and Introduction to Routing and Switching. In addition to these specialized courses, students learn key interpersonal communication skills sought by employers and complete a minimum of hours of 120 IT 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.

For more information about this degree please contact the Green River IT faculty at [itdegrees@greenriver.edu](mailto:itdegrees@greenriver.edu)

Dept./No.	Course Title	Credits
<b>General Education Requirements</b>		
#Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communication or Public Speaking or Small Group Communication	5
#Engl& 101 Engl 128	English Composition 5 Research Writing: Science/Engineering/ Business	5
#Math 108	Contemporary Math for Information Technology	5
<b>Note:</b> Students who wish to transfer should meet with an academic advisor to ensure they take the appropriate classes to meet the transfer requirements.		
<b>Core Requirements</b>		
Keyboarding IT 114 or	30 wpm (3 minute-typing test) CompTIA A+ Certification Preparation or CompTIA A+ Certification	
IT 131	Networking Fundamentals	5
IT 135	CompTIA Security+ Certification Preparation	5
#IT 141	Customer Service and Work Environment for IT Professionals	4
IT 160	Windows Server Administration I	5
IT 190	Linux Administration I	5
IT 102	Introduction to Programming	
IT 201 or IT 252	Database Fundamentals or SQL Server Administration	5
IT 210	Introduction to Routing and Switching	5
IT 240	Windows Server Administration II	5
IT 243	Linux Administration II	5
IT 245	Windows Server Administration III	5
<b>Practical Experience: Four credits from the following courses:</b>		
IT 175	Student Assistant (0-2)	
IT 178	Information Technology Work Experience (0-4)	

**Electives:** 0-7  
 \*\* Any IT courses numbered 100 or higher in the college catalog. Elective credits are only required if students submit a CompTIA A+ certification in place of IT 114.

## Information Technology – Systems

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

90 Credits

This degree program prepares students for entry into a Bachelor of Applied Science in Information Technology degree program at Green River College. In addition, this applied associate's degree program prepares students for entry-level employment in a variety of IT positions, such as 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, systems administration, and software development, resulting in a balanced, well-rounded knowledge of information technology. Students complete four courses on key advanced networking topics or four courses in programming and database design. 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. System administrators install, support, and maintain an organization's network servers and directory services infrastructure.

For more information about this degree please contact the Green River IT faculty at [itdegrees@greenriver.edu](mailto:itdegrees@greenriver.edu)

Dept./No.	Course Title	Credits
<b>General Education Requirements</b>		
#Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communication or Public Speaking or Small Group Communication	5
#Engl& 101 †Engl 128	English Composition Research Writing: Science/Engineering and Business or Any Social Science course from the AA-DTA degree or Any Natural Science List A course from the AA-DTA degree	5
#Math 108 or Math& 141 or	Contemporary Math for Information Technology or PreCalculus I or higher	5
<b>Note:</b> Students planning to pursue the Bachelor of Applied Science (BAS) degree in IT Network Administration and Security should complete MATH 108. Students planning to continue pursue the Bachelor of Applied Science degree in IT Software Development should complete MATH& 141 or higher.		
<b>Core Requirements:</b>		
*Keyboarding IT 102	30 words per minute (typing test) Introduction to Programming	5
IT 114 or	CompTIA A+ Certification Preparation or Certification	5 or 7
IT 131	Networking Fundamentals	5
IT 135	CompTIA Security+ Certification Preparation	5
IT 141	Customer Service and Work Environment for IT Professionals	4
IT 160	Windows Server Administration I	5
IT 190	Linux Administration I	5
IT 201	Database Fundamentals	5
IT 236	CompTIA Advanced Security Practitioner Certification Preparation	5
IT 240	Windows Server Administration II	5

**Select 15 credits from the following list to complete 90 credits:**  
 Students planning to pursue the Bachelor of Applied Science (BAS) degree in IT Network Administration and Security are recommended to complete the following:

IT 210	Introduction to Routing and Switching	5
IT 243	Linux Administration II	5

IT 245 Windows Server Administration III 5

OR

Students planning to continue pursue the Bachelor of Applied Science degree in IT Software Development are recommended to complete the following:

IT 121 Introduction to HTML and Cascading Style Sheets 5  
 IT 219 or Programming I or  
 CS& 141 Computer Science I - Java 5  
 IT 220 or Software Development Methods or  
 CS 145 Java 2-Data Structure 5

**Practical Experience: Four credits from the following courses:** 4  
 IT 175 Student Assistant (0-4)  
 IT 178 Information Technology Work Experience (0-4)

**Electives:** 0 or 7  
 Any course numbered 100 or higher that is not listed above may be used for elective credits. Elective credits are only required if a CompTIA A+ certification is used in place of IT 114.

† Engl 128 or Bus& 101 or Phys& 110 are highly recommended

\* Keyboarding/typing skills may be demonstrated by passing a 3-minute typing test at 30 wpm with 5 or less errors.

## International Flight Planning

### Certificate of Proficiency

35 Credits

The program prepares individuals with only an aircraft dispatcher's license to be knowledgeable in international operations and ETOPS procedures.

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Jerry Wolfe, ext. 4339 [jwofe@greenriver.edu](mailto:jwofe@greenriver.edu)

Dept./No.	Course Title	Credits
<b>First Quarter:</b>		
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather 5	
Avia 216	Basic Instrument Pilot Ground School	5
<b>Second Quarter:</b>		
Avia 270 or	Air Traffic Control Fundamentals or	
Avia 281	Air Traffic Control 1	5
Avia 265	Airline Dispatch	10
Avia 267	International Flight Planning and ETOPS	5

## Legal Administrative Assistant

### Associate in Applied Arts Degree

93-98 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 each class 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.

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Dept./No.	Course Title	Credits
Lifetime Fitness/	Any course under the AA degree	
Wellness Activity	Lifetime Fitness/Wellness/Activity area	1+
Btac 100	Fundamentals of Computers	5
*Btac 102	Intermediate Keyboarding	5
Btac 103	Advanced Keyboarding	5
Btac 109	Legal Terminology	3
# Btac 110	Business Math Applications	5
Btac 112 or	Beginning Word or	
Btac 255	Advanced Word	5
#Btac 130	Business Correspondence	5
Btac 132	Business Communication Applications	5
Btac 140	Records Management	5
Btac 150	Introduction to Windows	5
Btac 162	Introduction to Excel	5
Btac 177	BTAC Work Experience 1	3
Btac 235	Legal Office Procedures	5
#Btac 250 or	Office Relations and Procedures or	
Bus 166	Human Relations and Work Readiness	5
Btac 220	Technology in the Legal Office	5
Btac 266	Inside Microsoft Office	5
Bus& 201	Business Law and the Regulation of Business	5
#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
Coop 171	Work Experience Seminar	1
Pols& 200	Introduction to Law	5
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS score) or completion of Read 094	0-5

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

Acct 110 or	Practical Financial Accounting 1 or	
Acct& 201 or	Principles of Accounting 1 or	
Btac 090	Office Accounting	5
Bus& 101 or	Introduction to Business or	
Bus 164	Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	5
Btac 107 and/or	Typing Speed and Accuracy 1 and/or	
Btac 108	Typing Speed and Accuracy 2	4-8
Btac 111	Introduction to Computer Literacy	5
° Btac 115	Professional Image Building	1
Btac 163	Advanced Excel	5
Btac 175	Instructor Assistant	1-5
Btac 178-179	Btac Work Experience 2-3	2-10
Btac 184	Internet and Basic Web Design	5
Btac 185	Introduction to Microsoft Access	5
Btac 214	Introduction to Information Security	5
Btac 250	Office Relations and Procedures	5
Btac 255	Advanced Word 5	
CJ& 101	Introduction to Criminal Justice	5
Phil 114	Philosophical Issues in Law	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 Btac 255 in place of Btac 112.

## Medical Office Administration

### Associate in Applied Arts Degree

94-108 Credits

This degree program provides students an opportunity to develop essential medical administrative 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 each class with a grade of 2.0 or higher.

To earn this degree, the student must complete all core classes. In addition, the student must choose an area of concentration and complete the required courses in that area.

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.

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 Julie Slettvet, ext. 4687 [jslettvet@greenriver.edu](mailto:jslettvet@greenriver.edu)  
 Tonya McCabe, ext. 4783 [tmccabe@greenriver.edu](mailto:tmccabe@greenriver.edu)  
 Shannon Sharpe, ext.4378 [ssharpe@greenriver.edu](mailto:ssharpe@greenriver.edu)

Dept./No.	Course Title	Credits
AP 100	Survey of Anatomy-Physiology	5
Bus 166	Human Relations and Work Readiness	5
Btac 100	Fundamentals of Computers	5
*Btac 102	Intermediate Keyboarding	5
#Btac 110	Business Math Applications	5
Btac 112 or Btac 255	Beginning Word or Advanced Word	5
Btac 125	Medical Terminology for Office Administration	5
Btac 126	Pharmaceutical Basics	2
Btac 127	Overview of Human Diseases for Non-Clinicians	3
# Btac 130	Business Correspondence	5
Btac 142	Health Information and Delivery Systems	5
Btac 143	Medical/Legal Aspects of Health Information	5
Btac 145	Introduction to ICD Coding	5
Btac 146	Introduction to CPT Coding	5
Btac 162 or Btac 163	Introduction to Excel or Advanced Excel	5
Btac 245	Medical Office Procedures	5
Cmst 100 or Cmst& 210 or Cmst& 220	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test score) or completion of Read 094	0-5

**Options: Select from one of the following areas of concentration.**

**A. Front Office (14 credits)**

Btac 132	Business Communication Applications	5
Btac 177 and Coop 171	Business Technologies and Administrative Careers Work Experience 1 and Work Experience Seminar	3 1
Btac 266	Inside Microsoft Office	5

**B. Medical Coding & Reimbursement (23 credits)**

Btac 180	Medical Coding Professional Practice Experience	5
Btac 248	Healthcare Reimbursement Methodology	5
Btac 257	Intermediate ICD Medical Coding	5
Btac 258	Intermediate CPT/HCPCS Medical Coding	5
Btac 259	Medical Encoder Practicum	3

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

Acct 110	Practical Financial Accounting 1	5
Bus& 101	Introduction to Business	5
Btac 101	Beginning Keyboarding	5
Btac 107 and/or Btac 108	Typing Speed and Accuracy 1 and/or Typing Speed and Accuracy 2	2
°Btac 111	Introduction to Computer Literacy	5
Btac 112 or Btac 255	Beginning Word or Advanced Word	5
° Btac 115	Professional Image Building	1

Btac 140	Records Management	5
Btac 150	Introduction to Windows	5
Btac 162 or Btac 163	Introduction to Excel or Advanced Excel	5
Btac 175	Instructor Assistant	1-5
Btac 185	Introduction to Microsoft Access	5
Btac 250	Office Relations and Procedures	5

# Satisfies related instruction requirements.

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

° Qualifies as AA-DTA activity credit.

## Natural Resources-Forestry

### Associate in Applied Science Degree

101 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 the Natural Resources program in any quarter, however many Natural Resources courses are only offered one time each year. Correct sequencing is important! For best results, students should enter these career-technical programs at the beginning of summer or fall quarter.

Natural Resources with emphasis in Forestry and specialties in Natural Resources-Geographic Information System Option, Park Management, Water Quality and Wildland Fire.

All courses apply to the Associate in Arts degree as elective courses and may be transferable to a four year natural resources program.

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.

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Rob Sjogren, ext. 4582  
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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	4
#Natrs 180	Natural Resources Measurements	5
Natrs 270	Stream and Wetland Ecology	5
<b>Spring Quarter</b>		
Natrs 182	Aerial Photo GIS, and Forest Navigation	8
Natrs 184	Shrub and Wildflower Identification	3
P E 113	Group Dynamics Activities	1

(taken concurrently with Natrs 182)

**Summer Quarter: Work Experience**

**SECOND YEAR**

**Fall Quarter**

GIS 192	GIS for Natural Resources	5
Natrs 205	Wildland Recreation	4
Natrs 292	Resource Sampling and Appraisal of Forest Conditions	8

**Winter Quarter**

Natrs 210	Introduction to Soils 5	
Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar 1	
Natrs 293	Silvicultural Analysis and Forest Protection	4

**Spring Quarter**

# Natrs 286	Natural Resources Business Principles	5
* Natrs 186	Invasive Species Management and Control	4
* Natrs 294.1	Natural Resources Internship 1	3

**Summer Quarter**

Natrs 294.2, 294.3 or 294.4	Natural Resources Internship 2-4(if needed)	0-9
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**To enhance the student's preparation for future employment, the following are recommended:**

Avia 123	Aviation Weather	(5)
Engr 106	Introduction to Engineering Problems	(3)
GIS	Any GIS class	
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)

# 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!

**Natural Resources  
Geographic Information Systems  
Associate in Applied Science Degree  
109 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!

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Dept./No	Course Title	Credits
<b>FIRST YEAR</b>		
<b>Fall Quarter</b>		
GIS 121	Introduction to GIS	5
Natrs 100	Introduction to Natural Resources	5

Natrs 183	Tree and Shrub Identification	5
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**Winter Quarter**

#Engl& 101	English Composition I	5
GIS 260	Cartography-Based GIS	5
#Natrs 180	Natural Resources Measurements	5
Natrs 270	Stream and Wetland Ecology	5

**Spring Quarter**

Engl 128	Research Writing: Science/Engineering/Business	5
GIS 220	GIS Modules Analyst	5
Natrs 182	Aerial Photo GIS and Forest Navigation	8
P E 113	Group Dynamics Activities	1
(taken concurrently with NATRS 182)		

**SECOND YEAR**

**Fall Quarter**

GIS 192	GIS for Natural Resources	
GIS 250	Data and Spatial Database	5
Design	Resource Sampling and Appraisal of Forest Conditions	8
Natrs 292		

**Winter Quarter**

#Cmst& 220	Public Speaking	5
#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
GIS 292	GIS Project	5

**Summer Quarter**

Natrs 294.1, 294.2, 294.3 and 294.4	Natural Resources Internship 1-4	14
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**To enhance the student's preparation for future employment, the following are recommended:**

Any GIS		(1-8)
Any Natrs		(1-8)
Btac 101	Beginning Typing/Keyboarding	(5)
Natrs 114	Chainsaw Operation and Maintenance	(1)
Geog 120	Intro to Physical Geography	(5)
St Sk 110	College Success Strategies	(5)

# Satisfies related instruction requirements.

**Natural Resources  
Park Management  
Associate in Applied Science Degree  
107-109 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.

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[rsjogren@greenriver.edu](mailto:rsjogren@greenriver.edu)

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	4
#Natrs 180	Natural Resources Measurements	5
Natrs 270	Stream and Wetlands Ecology	5
<b>Spring Quarter</b>		
Natrs 182	Aerial Photo, GIS, and Forest Navigation	8
Natrs 184	Shrub and Wildflower Identification	5
P E 113	Group Dynamics Activity (taken concurrently with Natrs 182)	1

**SECOND YEAR**

<b>Fall Quarter</b>		
Geol& 101 and Soc& 101 or Natrs 123	Physical Geology and Introduction to Sociology or Backcountry Watershed Assessment	(5) (5) (12)
GIS 192	GIS for Natural Resources	5
Natrs 205	Wildland Recreation 4	4
<b>Winter Quarter</b>		
Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis and Forest Protection	4
<b>Spring Quarter</b>		
#Natrs 286	Natural Resources Business Principles	5
*Natrs 294.1, 294.2 294.3 and 294.4	Natural Resources Internship 1-4	14

**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 of Forest Conditions	(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.

## Natural Resources Water Quality

### Associate in Applied Science Degree

113-115 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!

**Contacts:** Monica Paulson Priebe, ext. 4509  
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[rsjogren@greenriver.edu](mailto:rsjogren@greenriver.edu)

Dept./No.	Course Title	10-12	Credits
<b>FIRST YEAR</b>			
<b>Summer Quarter</b>			
#Cmst& 220	Public Speaking		5
#Engl& 101	English Composition I		5
<b>Fall Quarter</b>			
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
<b>Winter Quarter</b>			
Natrs 114	Chainsaw Operation and Maintenance		1
Natrs 161	Wildlife Habitat Management		4
#Natrs 180	Natural Resources Measurements		5
Natrs 270	Stream and Wetland Ecology		5
<b>Spring Quarter</b>			
Natrs 182	Aerial Photo, GIS, and Forest Navigation		8
Natrs 184	Shrub and Wildflower Identification		3
P E 113	Group Dynamics Activities (taken concurrently with NATRS 182)		1
<b>SECOND YEAR</b>			
<b>Fall Quarter</b>			
Geol& 101 and Soc& 101 or Natrs 123	Physical Geology and Introduction to Sociology or Backcountry Watershed Assessment	(5) (5) (12)	10-12
GIS 192	GIS for Natural Resources		5
Natrs 205	Wildland Recreation		
Natrs 272	Fish Identification and Habitat		5
<b>Winter Quarter</b>			
Natrs 210	Introduction to Soils		
Natrs 284	Road and Trail Engineering		6
Natrs 290	Internship Seminar		1
Natrs 293	Silvicultural Analysis and Forest Protection		4
<b>Spring Quarter</b>			
Natrs 271	Stream and Wetland Restoration		5
#Natrs 286	Natural Resources Business Principles		5
<b>Capstone</b>			
Natrs 294.1, 294.2, 294.3 and 294.4	Natural Resources Internship 1-4		14

**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 in Forest Conditions	(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.

## Natural Resources Wildland Fire Associate in Applied Science Degree 102 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!

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Rob Sjogren, ext. 4582  
[rsjogren@greenriver.edu](mailto:rsjogren@greenriver.edu)

Dept./No.	Course Title	Credits
<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	4
#Natrs 180	Natural Resources Measurements	5
Natrs 270	Stream and Wetland Ecology	5
<b>Spring Quarter</b>		
Natrs 130	Wildland Firefighter Training I-100 & S-130/190	4
Natrs 134	Intermediate Wildland Fire Behavior	3
Natrs 182	Aerial Photo GIS and Forest Navigation	8
#P E 113	Group Dynamic Activities (taken concurrently with Natrs 182)	1
<b>Summer Quarter: Wildfire experience required</b>		
<b>SECOND YEAR</b>		
<b>Fall Quarter</b>		
#Cmst& 220	Public Speaking	5
GIS 192	GIS for Natural Resources	5
<b>Winter Quarter</b>		
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 and Forest Protection	4

<b>Spring Quarter</b>		
Natrs 184	Shrub and Wildflower Identification	3
#Natrs 286	Natural Resources Business Principles	5
<b>Capstone</b>		
Natrs 294.1, 294.2, 294.3 and 294.4	Natural Resources Internship	14

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

Avia 123	Aviation Weather	(5)
BTAC 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.

## Practical Nursing Associate in Applied Science Degree 95 Credits

The degree 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 95 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 or higher is required in each nursing and supporting course. Evidence of academic proficiency is established by completion of each of the following prerequisite 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);
- Completion of Math& 107 or higher (not Technical Math)
- H Sci 150, Human Life Span, Growth, & Development (5 credits) or Psc& 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, 126, 127, **or** 128.

The student is expected to provide his/her own transportation to off-site clinical facilities that at times can be 50 or more miles away. 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 an Associate in Applied Science degree 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 legal convictions, 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.

**Contact:** Susan Baker, ext. 4589  
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Information Session Sign up: [www.greenriver.edu/info-sessions](http://www.greenriver.edu/info-sessions)

Dept./No.	Course Title	Credits
<b>Fall Quarter</b>		
Nurse 101	Introduction to Computers in Nursing	1
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 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
Nurse 114	Principles and Practice of Intravenous Therapy	2
<b>Summer Quarter</b>		
#Nurse 112	Nursing 4	6
Nurse 113	Nursing 4 Community Lab 4	6

**Curriculum Requirements:**

*Students must have a grade of 2.5 or higher in the following prerequisites/supporting courses:*

AP 103 and 104 <b>or</b>	Essentials of Human Anatomy-Physiology 1 and 2 <b>or</b>	
Biol& 241 and 242	Human Anatomy-Physiology 1 <b>and</b> 2	10
#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
Psyc& 200	Lifespan Psychology	5
Nutr& 101	Nutrition	5
#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& 107 <b>or</b> higher	Math in Society or higher (Not Technical Math)	5

# Satisfies related instruction requirements.

## CANCELLED PROFESSIONAL/TECHNICAL DEGREES AND CERTIFICATES

- Advanced Aviation Technology Certificate
- Auto Body Technology AAS
- Auto Body Collision Repair Certificate
- Auto Body Painting and Refinishing Certificate
- Geographic Information Systems AAS and Certificate
- Geographic Information system and Information Technology AAS
- Information Technology—Computer Support Specialist AAS
- Intermediate Aviation Technology Certificate
- Medical Transcriptionist Certificate

## COURSE DESCRIPTIONS

### NEW COURSES

#### Aviation

**AVIA 109 Introduction to Unmanned Aerial Systems (5)**  
 Introduces students to the requirements of operating an unmanned aerial vehicle. Covers aerodynamics, regulatory requirements, designing and building, telemetry, communications, weather, performance and support equipment. Addresses the application of unmanned aerial vehicles and their sub-systems.

**AVIA 129 Unmanned Aerial Vehicle Basics (5)**

Introduces students to the more complex areas of the Unmanned Aerial Systems industry. Topics include federal regulations for UAS, regulatory environment for commercial use, economic impact, and components of Unmanned Aerial Vehicles. Allows students to learn the manufacturing and maintenance of the UAS. Also introduces the basic flight characteristics of UAS. PREREQUISITE: AVIA 109.

**AVIA 210 Aviation and the Law (5)**

Aviation law and regulations including discussions of constitutional, administrative and international law affecting aviation. Analysis of aviation regulatory environments and processes including legislation, rule-making, certification and enforcement actions using case studies. PREREQUISITE: AVIA 111 or instructor's permission.



**AVIA 229 Unmanned Aerial Vehicle Operations (5)**  
Students demonstrate and apply what they have learned in previous courses by conducting simulated and real life flight missions in the field. PREREQUISITE: AVIA 129.

**AVIA 270 Air Traffic Control Fundamentals (5)**  
Covers Air Traffic Control (ATC) history, current organization, functions and general operations of ATC as part of the National Airspace System (NAS). Includes explanations of functions and purposes of airport Air Traffic Control Towers, Radar Approach Controls and Air Route Traffic Control Centers and the integration of ATC into the other elements and components of the NAS. Also covers how ATC teams are the cornerstone of ATC operations to effectively accomplish the FAA ATC mission. PREREQUISITE: AVIA 111 and AVIA 123 and AVIA 216; or instructor's permission.

**AVIA 300 Certified Flight Instructor Ground School (3)**  
Ground school covering principles of instruction, instructor-student interaction, setting standards and developing aviation skills and knowledge in hands-on and one-on-one learning environments with special emphasis on safety and Line Oriented Flight Training (LOFT) procedures, methods and skills. PREREQUISITE: AVIA 111, AVIA 123, AVIA 216 and AVIA 218; or instructor's permission.

**AVIA 316 Advanced Instrument Ground School (5)**  
Advanced instrument procedures knowledge including TERPS, expansion on topics covered in next gen operations and pilot techniques for advanced instrument flight with special emphasis on safety and LOFT skills.

**AVIA 320 Multi-Engine, Turbine and Advanced Technologies Ground School (3)**  
Instruction and foundation knowledge for operating high performance aircraft with advanced engines, multiple engines, turbo-prop and turbine aircraft, and aircraft with advanced cockpit technologies. Special emphasis on safety of flight and Line Oriented Flight Training (LOFT) procedures, methods and skills. PREREQUISITE: AVIA 111, AVIA 211, AVIA 216, and AVIA 218; or instructor's permission.

**AVIA 330 Certified Flight Instructor: Multi-Engine and Advanced Cockpit Technologies (3)**  
Instruction in how to teach flight students in the correct operation of high performance aircraft with advanced engines, multiple engines, turbo-prop and turbine aircraft, as well as instruction in how to teach advanced cockpit technologies methods and procedures with special emphasis on safety of flight and Line Oriented Flight Training (LOFT) procedures, methods and skills. PREREQUISITE: AVIA 300 and AVIA 320; or instructor's permission.

**AVIA 360 General Operations Aviation Management (5)**  
Covers general aviation with emphasis on FAA and other government regulatory impacts, business and marketing, interaction with communities surrounding general aviation airports, awareness and understanding of impacts of political and economic factors that affect and influence general aviation airport operations and management. PREREQUISITE: AVIA 111 and AVIA 218; or instructor's permission.

**AVIA 370 Aviation Safety Management (5)**  
Covers FAA Safety Management System model and case studies to develop understanding of FAA SMS methodology and procedures. Case

studies cover different aspect of SMS risk assessment and mitigation for aviation areas including safety risk analysis, solution options and stakeholder participation process.

**AVIA 375 ICAO Operations Standards (5)**  
Covers International Civil Aviation Operations complying with ICAO standards. Includes brief history of ICAO and how ICAO functions today, and addresses how ICAO standards apply to various regional and national locales. Explains ICAO organization supporting global flight operations and how ICAO interacts with individual countries such as the US to create a safe international flight environment.

**AVIA 380 Aviation Business Management and Marketing (5)**  
Covers challenges operating an aviation business with emphasis on marketing to the aviation industry that present unique challenges and opportunities in the business environment. These challenges are due to the variety of customers and markets that an airport management team must address to become and remain a viable business entity while supporting surrounding communities and industries.

**AVIA 385 Airport Planning and Operations Management (5)**  
Covers challenges of planning and operating airports in modern era. Includes coverage of airport planning for larger airports that handle commercial air carriers as well as factors affecting smaller local airports that support local general aviation communities.

**AVIA 400 Airline Operations Management (5)**  
Covers commercial air carrier and other broad ranging aviation operations management models and business models that show differences in local, regional, national and international markets. Consideration of government regulations, local, national and international economics, emerging aviation technology impacts with special emphasis on cost and revenue factors affecting aviation operations.

**AVIA 410 Aviation and Aircrew Resource Management (5)**  
Covers modern flight operations and management of resources before, during and after flight. Emphasis on management coordination and communication on the ground, during pre-flight planning, and in the air between the aircrew and the ground team. Special emphasis on managing in-flight emergency operations involving solutions that include ground and air resources to ensure safe, efficient, effective flight operations.

**AVIA 430 Aviation and the Global Economy (5)**  
Covers relationships between aviation economics and global economics. Emphasis on understanding underlying economic and political factors that affect and influence the aviation industry and the aviation business environment. Uses case studies to help students connect aviation topics and theme with global economic and political trends, actions and consequences.

**AVIA 430 Aviation and the Global Economy (5)**  
Guided research projects on topics of current interest and concern that currently affect or will affect the aviation community locally, regionally, nationally or globally.

**Aviation – Flight (FLT)**

All flight courses require additional flight fees. Green River College partners with local flight schools to complete flight training. The number of training hours and costs vary for each flight course depending on which school the student selects. VA education benefits only cover the number of hours listed below. Most students need more time to obtain FAA certification and the cost will be incurred to the student as out-of-pocket expense. Students must also obtain a FAA Class II Medical Certificate before entering the program (Class I for ATP License).

**FLT 111 Private Pilot Flight 1 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Private Pilot course. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 Stage Check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to qualify for a solo flight. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 111	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	36	\$45.00	29	\$75.00
Pre/Post Flight Discussion	6.5	\$45.00	5	\$75.00
Dual Flight	9	\$171.00	9	\$178.00
Solo Flight	2.5	\$126.00	0.5	\$98.00
Stage Check	1	\$236.00		

**FLT 112 Private Pilot Flight 2 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn FAA Private Pilot license under the flight school approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements for the Private Pilot course. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 112	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	62	\$45.00	20	\$75.00
Pre/Post Flight Discussion	6.5	\$45.00	8	\$75.00
Dual Flight	11	\$171.00	15	\$178.00

Solo Flight	8.5	\$126.00		
Stage Check	3	\$236.00		

**FLT 113 Private Pilot Flight (1)**

Qualifies students to demonstrate skills and knowledge necessary for flight proficiency requirements as an instrument instructor pilot in a flight simulator.

**FLT 161 Helicopter Private Pilot Flight 1 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the private pilot course. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to perform basic flight maneuvers. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 161	Classic Helicopter Corporation	
	Training Time (in hours)	Hourly Rate
Ground	18	\$45.00
Pre/Post Flight Discussion	11	\$45.00
Dual Flight	18.5	\$290.00
Stage Check Flight	1.5	\$305.00

**FLT 162 Helicopter Private Pilot Flight 2 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Private Pilot course. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to qualify for a solo cross-country flight. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. *Flight fees are subject to change.*

FLT 162	Classic Helicopter Corporation	
	Training Time (in hours)	Hourly Rate
Ground	14	\$45
Pre/Post Flight Discussion	5	\$45.00
Dual Flight	5	\$290.00
Stage Check Flight	2.5	\$245.00

**FLT 163 Helicopter Private Pilot Flight 3 (1)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn FAA private pilot license under the flight school's approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements for the private pilot course. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are

indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 163		Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate	
Ground	3	\$45.00	
Pre/Post Flight Discussion	3	\$45.00	
Dual Flight	3	\$290.00	
Solo Flight	2.5	\$245.00	
Stage Check Flight	1	\$305.00	

**FLT 211 Instrument Pilot Flight 1 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument Pilot course. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to perform basic attitude instrument flying. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. *The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change.*

FLT 211	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	9	\$45.00	9	\$80.00
Pre/Post Flight Discussion	6.5	\$45.00	6.5	\$80.00
Dual Flight	12	\$180.00	13	\$218.00
Stage Check	1	\$245.00		

**FLT 212 Instrument Pilot Flight 2 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument Pilot course. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instrument instruction. The stage check requirement for this class is to perform departure/arrival procedures to FAA Practical Test standards. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. *The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change.*

FLT 212	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	11.5	\$45.00	11.5	\$80.00
Pre/Post Flight	4.5	\$45.00	4.5	\$80.00

Discussion				
Dual Flight	9.5	\$180.00	11	\$218.00
Stage Check	1.5	\$245.00		

**FLT 213 Instrument Pilot Flight 3 (1)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn FAA instrument rating under the flight school approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veterans Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. *The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change.*

FLT 213	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	9.5	\$45.00	9.5	\$80.00
Pre/Post Flight Discussion	3	\$45.00	3	\$80.00
Dual Flight	9.5	\$180.00	11	\$218.00
Stage Check	1.5	\$245.00		

**FLT 231 Commercial Pilot Flight 1 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Commercial Pilot course. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement. The stage check requirement for this class is to perform a simulated cross-country flight. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. *The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change.*

FLT 231	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	10	\$45.00	10	\$80.00
Pre/Post Flight Discussion	7.5	\$45.00	7.5	\$80.00
Dual Flight	11	\$171.00	13	\$218.00
Solo Flight	40	\$126.00	40	\$138.00
Stage Check	2	\$236.00		

**FLT 232 Commercial Pilot Flight 2 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Commercial Pilot course. The student must follow the requirements of Title 14 of the Code of Federal Rules Part 141 from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to perform a Complex Aircraft Checkout.

The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 232	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Type	Training Time (in hours)	Hourly Rate	Training Time (in hours)
Ground	25	\$45.00	25	\$80.00
Pre/Post Flight Discussion	11.5	\$45.00	11.5	\$80.00
Dual Flight	19	\$171.00	20	\$265.00
Solo Flight	9	\$126.00	9	\$185.00
Stage Check	1	\$236.00		

**FLT 233 Commercial Pilot Flight 3 (1)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn FAA Commercial Pilot license under the flight school approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements for the Commercial Pilot course. The training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 233	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Type	Training Time (in hours)	Hourly Rate	Training Time (in hours)
Pre/Post Flight Discussion	10	\$45.00	10	\$80.00
Dual Flight	19.5	\$171.00	22	\$265.00
Solo Flight	16	\$126.00	16	\$185.00
Stage Check	2.5	\$236.00		

**FLT 261 Helicopter Instrument Pilot Flight 1 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument Pilot course. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 Stage Check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to perform basic attitude instrument flight. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 261	Classic Helicopter Corporation	
	Training Type	Training Time (in hours)
Ground	15	\$55.00

Pre/Post Flight Discussion	6	\$55.00
Dual Flight	13.5	\$300.00
Stage Check Flight	1.5	\$305.00

**FLT 262 Helicopter Instrument Pilot Flight 2 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument Pilot course. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to perform instrument approach procedures to FAA standards. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 262	Classic Helicopter Corporation	
	Training Type	Training Time (in hours)
Ground	15	\$55.00
Pre/Post Flight Discussion	5	\$55.00
Dual Flight	11	\$300.00
Stage Check Flight	2	\$305.00

**FLT 263 Helicopter Instrument Pilot Flight 3 (1)**

Qualifies students to demonstrate skills and knowledge necessary for flight proficiency requirements as an instrument pilot in a flight simulator.

**FLT 271 Helicopter Commercial Pilot Flight 1 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Commercial Pilot course. Student must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to refine commercial flight maneuvers to FAA standards. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 271	Classic Helicopter Corporation	
	Training Type	Training Time (in hours)
Ground	18	\$45.00
Pre/Post Flight Discussion	13.5	\$45.00
Dual Flight	10.5	\$290.00
Solo/PIC Flight	23	\$245.00
Stage Check Flight	1.5	\$305.00

**FLT 272 Helicopter Commercial Pilot Flight 2 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Commercial Pilot course. Students must follow the requirements of Title 14 of the

Code of Federal Rules Part 141 Stage Check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to demonstrate instrument flight competency to FAA standards. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. [The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change.](#)

FLT 272 Classic Helicopter Corporation		
Training Type	Training Time (in hours)	Hourly Rate
Ground	12	\$45.00
Pre/Post Flight Discussion	12	\$45.00
Dual Flight	16	\$290.00
Solo/PIC Flight	15	\$245.00
Stage Check Flight	2	\$305.00

**FLT 273 Helicopter Commercial Pilot Flight 3 (1)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn FAA Commercial Pilot license under the flight school approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements for the Commercial Pilot course. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. [The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change.](#)

FLT 273 Classic Helicopter Corporation		
Training Type	Training Time (in hours)	Hourly Rate
Pre/Post Flight Discussion	16	\$45.00
Dual Flight	9	\$290.00
Solo/PIC Flight	42	\$245.00
Stage Check Flight	2	\$305.00

**FLT 281 Instructor Helicopter Pilot Flight 1 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Flight Instructor course. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to perform basic commercial maneuvers to FAA standards. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. [The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change.](#)

FLT 281 Classic Helicopter Corporation		
Training Type	Training Time (in hours)	Hourly Rate
Ground	20	\$55.00
Pre/Post Flight Discussion	5	\$55.00

Dual Flight	11.5	\$300.00
Stage Check Flight	1.5	\$305.00

**FLT 282 Instructor Helicopter Pilot Flight 2 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn FAA flight instructor rating under the flight school's approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements for flight instructor. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. [The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change.](#)

FLT 282 Classic Helicopter Corporation		
Training Type	Training Time (in hours)	Hourly Rate
Ground	20	\$55.00
Pre/Post Flight Discussion	2	\$55.00
Dual Flight	10.5	\$300.00
Stage Check Flight	1.5	\$305.00

**FLT 291 Helicopter Instrument Instructor Pilot Flight 1 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn FAA Instrument Instructor Pilot rating. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 requirements for the Instrument Instructor course. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. [The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change.](#)

FLT 291 Classic Helicopter Corporation		
Training Type	Training Time (in hours)	Hourly Rate
Ground	15	\$55.00
Pre/Post Flight Discussion	6.5	\$55.00
Dual Flight	13.5	\$300.00
Stage Check Flight	1.5	\$305.00

**FLT 292 Helicopter Instrument Instructor Pilot Flight 2 (1)**

Qualifies students to demonstrate skills and knowledge necessary for flight proficiency requirements as an instrument instructor pilot in a flight simulator.

**FLT 311 Certified Flight Instructor-Flight 1 (2)**

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Flight Instructor Rating. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement for this class under the training course outline from the appropriate authorized flight school providing all in-flight instruction. The stage check requirement for this class is to demonstrate right-seat proficiency to commercial pilot standards as a flight instructor. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated

in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 311	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	14.5	\$45.00	14.5	\$80.00
Pre/Post Flight Discussion	4	\$45.00	4	\$80.00
Dual Flight	10.5	\$171.00	12	\$265.00
Stage Check	1.5	\$236.00		

**FLT 312 Certified Flight Instructor-Flight 2 (1)**  
 Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn an FAA Flight Instructor Rating under the flight school's approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements for Flight Instructor. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 312	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	40	\$45.00	40.00	\$80.00
Pre/Post Flight Discussion	5.5	\$45.00	5.5	\$80.00
Dual Flight	11.5	\$171.00	13	\$265.00
Stage Check	1.5	\$236.00		

**FLT 321 Multi-Engine Operations Flight (1)**  
 Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn an FAA multi-engine rating under the flight school's approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements for multi-engine rating. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 281	Galvin Flight Training, LLC.	
Training Type	Training Time (in hours)	Hourly Rate
Ground	15	\$80.00
Pre/Post Flight Discussion	7	\$80.00
Dual Flight	15	\$495.00

**FLT 324 Turbine Operations Flight (1)**  
 Qualifies students to obtain skills and knowledge necessary to meet flight proficiency in turbine engine operations in a flight simulator.

**FLT 326 Advanced Cockpit Technologies Flight (1)**  
 Covers flight instruction necessary to ensure competency in a flight simulator.

**FLT 331 Multi-Engine Instructor Rating (2)**  
 Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn an FAA multi-engine instructor rating under the flight school's approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements for multi-engine instructor. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 331	Galvin Flight Training, LLC.	
Training Type	Training Time (in hours)	Hourly Rate
Ground	20	\$80.00
Pre/Post Flight Discussion	7.5	\$80.00
Dual Flight	25	\$495.00

**FLT 334 Turbine Engine Instructor (1)**  
 Covers flight instruction necessary to ensure competency in a flight simulator.

**FLT 336 Advanced Technologies Instructor (1)**  
 Covers flight instruction necessary to ensure competency in a flight simulator.

**FLT 338 Instrument Instructor Rating (1)**  
 Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn an FAA instrument instructor rating under the flight school approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements for instrument instructor. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. The chart below represents the number of hours and flight fees approved for VA education benefits. *Flight fees are subject to change.*

FLT 338	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	15	\$45.00	15	\$80.00
Pre/Post Flight Discussion	8	\$45.00	8	\$80.00
Dual Flight	13.5	\$171.00	15	\$218.00
Stage Check	1.5	\$236.00		

## Business Technologies and Administrative Careers (BTAC)

(formerly BUSINESS EDUCATION [BUS E])

### BTAC 125 Medical Terminology for Office Administration (5)

Provide students in-depth coverage of the terminology and the medical language used in healthcare settings and used for medical documentation. Major topics include performing analysis of word parts such as roots, prefixes, suffixes and combining vowel as well as interpreting common abbreviations. Teaches students to accurately spell, pronounce and define common medical terms related to the major organ systems, disease processes, diagnostic and therapeutic procedures, laboratory tests and drugs. Not intended for students pursuing clinical degrees. PREREQUISITE: Eligible for READ 104; or instructor's permission.

### BTAC 180 Medical Terminology for Office Administration (5)

Provide students field-based practice with clinical code assignment and billing methodologies. Students complete field work with local healthcare facilities, physician practices, specialty clinics or other healthcare settings. In addition, students also complete in-class virtual based coding using authentic medical reports for a variety of patient types and encounters. PREREQUISITE: BTAC 257, BTAC 258 and BTAC 259, all with a grade of 2.0 or higher; or instructor's permission.

### BTAC 220 Technology in the Legal Office (5)

Provides a study of the impact and use of technology in the legal office. Topics include ethical issues in using technology in a legal office; legal use of hardware and software; use of the Internet, cloud computing, and computer applications by legal assistants and the court system. PREREQUISITE: BTAC 100, BTAC 103 and BTAC 109, all with a grade of 2.0 or higher; Eligible for ENGL 099; or instructor's permission.

### BTAC 257 Intermediate IC Coding (5)

Focuses on intermediate coding using the International Classification of Diseases (ICD) diagnostic classification coding system. Students will assign accurate codes to complex authentic case studies, applying compliance strategies, performing auditing procedures and maintaining quality monitor reports. Teaches students to abstract and assign valid diagnostic codes and verify code selection using real-life challenging coding cases. PREREQUISITE: BTAC 145 and BTAC 146 with a grade of 2.0 or higher; or instructor's permission.

### BTAC 258 Intermediate CPT/HCPC Coding (5)

Focuses on intermediate coding using Current Procedural Terminology (CPT), Healthcare Common Procedural Coding System (HCPCS) and International Classification of Diseases (ICD) procedural classification coding systems to assign accurate codes to complex authentic case studies. Teaches students to abstract and assign valid procedural codes and verify code selection using real-life challenging coding cases to a variety of procedural groupings including Ambulatory Payment Classifications (APC) and Resource Utilization Groups (RUG). PREREQUISITE: BTAC 145 and BTAC 146 with a grade of 2.0 or higher; or instructor's permission.

### BTAC 259 Medical Encoder (3)

Provide hands-on code look-up and verification using logic-based computerized encoding systems with coding reference software for IC, CPT, HCPCS classification systems. Exposes students to Computer

Assisted Coding (CAC) using Natural Language Processing (NLP) software. PREREQUISITE: BTAC 145 and BTAC 146, both with a grade of 2.0 or higher; or instructor's permission.

## Business Marketing and Entrepreneurship (BUS)

(formerly BUSINESS MANAGEMENT)

### BUS 310 Marketing Research and Analytics (5)

Students learn to formulate marketing goals by utilizing market research methods to collect, analyze, and evaluate marketing data and information. Topics include market research methods, data analysis and interpretation, research proposals, communicating research, and strategic applications of research. PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program and MATH& 141 or MATH 147; or instructor's permission. RECOMMEND: MATH 256.

### BUS 335 Integrated Marketing Communications (5)

Students learn to develop, measure, and evaluate an integrated marketing communications plan. Topics include situational and competitive analysis, target market segmentation, creative strategy, media planning and selection, budget determination, and measuring effectiveness of promotional program. PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program; and instructor's permission. RECOMMEND: BUS 121.

### BUS 344 Entrepreneurial Finance (5)

Students learn to apply financial management practices to obtain the financial capital necessary to operate and grow entrepreneurial ventures. Topics include financial statement analysis, valuation, determining financing needs, financing alternatives, and stages of financing. PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program and MATH& 141 or MATH 147; or instructor's permission. STRONGLY RECOMMEND: ACCT 110 or ACCT& 201.

### BUS 350 Production Development and Innovation (5)

Students learn how to identify, design, produce, test, and evaluate a new product. Topics include identification of market opportunities, generation of product concepts, feasibility analysis, prototyping, supplier selection, production planning, and testing. PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program; or instructor's permission. RECOMMEND: ENGR& 104.

### BUS 365 Consumer Behavior (5)

Examines how and why people behave as buyers. Students learn how to analyze buyer behavior, consumer motivation, perception, attitudes, and influences. Topics include cultural and social influences, advertising and salesperson influences, market segmentation, and the decision-making process. PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program; or instructor's permission.

### BUS 385 Operations Management for Competitive Advantage (5)

Students learn to apply operations management methods to increase results and streamline processes in small to medium-sized businesses. Topics include forecasting, process and facility selection, work design, production planning and scheduling, process improvement, and quality control. PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program and MATH& 141 or MATH 147 and BUS 340; or instructor's permission. RECOMMEND: MATH 256.

**BUS 390 Digital Marketing (5)**

Students learn how to apply digital marketing and analytic tools to create competitive and effective digital marketing programs. Topics include optimizing web and social content, online advertising, lead generation, email marketing, and web analytics. *PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program and BUS 335; or instructor's permission. RECOMMEND: BUS 121.*

**BUS 395 Strategic Marketing and Management (5)**

Examines how managers develop, implement, and evaluate strategic marketing decisions to maximize long-term profitability of a firm. Topics include analysis of competitor behavior, product line management, and long-term road mapping of product and branding strategy. *PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program and BUS 310, BUS 335, BUS 344, BUS 350, BUS 365, and BUS 390; or instructor's permission. RECOMMEND: BUS 258.*

**BUS 400 Personal and Professional Branding (5)**

Students apply personal and professional branding strategies to develop a comprehensive personal marketing and career plan. Topics include methods of conveying a consistent personal brand, career planning, job targeting, networking, personal marketing materials, effective use of social media, and involvement in targeted professional associations. *PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program; or instructor's permission.*

**BUS 460 Venture Launch 1 (5)**

Students work in teams to research, plan, and present a business proposal to business development counselors and institutional funding professionals. This is a two-course sequence with BUS 490. *PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program and BUS 395; or instructor's permission.*

**BUS 490 Venture Launch 2 (5)**

Students continue to work in teams to prototype, validate, and present proof of concept to a community of investors and funding sources. This is a two-course sequence with BUS 460. *PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program and BUS 460, or instructor's permission.*

**Drma (DRMA)****DRMA 157 Audition Techniques (5)**

Provides students with the skill set to succeed in auditions for stage, film, and TV using scripts from those different media. Students will also be given instruction on proper and expected behavior when auditioning, choosing audition material, and effective techniques in contacting and maintaining relationships with industry professionals. Parts of the class will be recorded allowing students to see their own work and make useful corrections.

**Early Childhood Education (ECED)****ECED& 132 Infants and Toddlers-Nurturing Care (3)**

Examines the unique developmental needs of infants and toddlers. Study includes the role of the caregiver, the relationships with families,

developmentally appropriate practices, culturally-relevant care and nurturing environments for infants and toddlers.

**ECED& 134 Family Child Care (3)**

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

**ECED& 136 School-Age Care (3)**

Provides skills to create developmentally appropriate and culturally-relevant activities and care for school-age children. Includes guidance techniques, building relationships, supporting academic and social skills, preparing the environment, curriculum development, and community outreach.

**ECED& 139 Administration of Early Learning Programs (3)**

Develops administrative skills required to successfully operate an early learning program based on state licensing, early learning initiatives and NAEYC accreditation standards.

**Film (Film)****Film 191 Latin America in Film (5)**

Explores the relationship between film and cultural interpretation and understanding of Latin America. Considers the history of cinema in Latin America. Focuses on how film has been used to interpret Latin American culture and how we can use to understand Latin American past and present with special emphasis on discussing the complex history and social problems of the region. Also explores common stereotypes with which Latin America has been portrayed in main stream U.S. movies. No knowledge of Spanish language required. *PREREQUISITE: Eligible for ENGL 100.*

**High School Completion (HSC)****HSC 033 High School Language Arts and Literature (5)**

Introduces high school students to the critical reading and writing skills needed for the study of civics and history. Students work with primary documents, history texts, historic analysis, and quotations, and their own writing to identify the central ideas, summarize complex concepts, and to describe the explicit and implicit contents of text.

**Information Technology (IT)****IT 219 Programming 1 (5)**

Introduces students to problem solving methods, algorithm development and object-oriented design. Students design, implement, document and debug programs using an object-oriented programming language. *PREREQUISITE: IT 102 or instructor's permission.*

**IT 236 CompTIA Advanced Security Practitioner Certification Preparation (5)**

Introduce students to the fundamentals of computer security and cryptography. Topics include network security; compliance and operational security; threats and vulnerabilities; applications, data, and host security; access control and identity management; and



cryptography. Students learn fundamental network security analysis methods. *PREREQUISITE: IT 135 or instructor's permission.*

**IT 301 Systems Programming (5)**

Introduces students to computer systems from the perspective of a programmer. Focus on understanding how hardware, operating systems, and compilers affect the performance of software. Topics covered include data representation, assembly and machine-level representation of high-level language programs, the memory hierarchy, linking, exceptions, interrupts, processes and signals, virtual memory, and system-level I/O. *PREREQUISITE: CS&131 or CS& 141; or instructor's permission.*

**IT 305 Web Development Frameworks (5)**

Students build web sites using one or more of the major web development frameworks (e.g.Node.js, ASP.NET, Rails) and evaluate strengths and limitations. Security is examined in each tier. Focus on technology integration, testing, and maintaining a separation of concerns between tiers. Survey of major cloud computing providers, their services, and their programming interfaces. *PREREQUISITE: CS 132 or CS 145; and admission into a bachelor's degree program.*

**IT 328 Full Stack Web Development (5)**

Continuation of IT 305. Examines design, integration, debugging, and testing in each layer of the web development stack. Topics include resource management in the server environment, modeling of application and domain logic using object-oriented design patterns, integration with databases using object-relational mapping, use of NoSQL data stores, application of the Model-View-Controller software pattern, and integration with third-party software. *PREREQUISITE: IT 305.*

**IT 333 Data Structures and Algorithms (5)**

Students store and organize data in data structures such as lists, stacks, queues, trees, hash tables, heaps, and graphs; compare algorithm design techniques such as the greedy method, divide and conquer, dynamic programming, and backtracking; analyze runtime performance using asymptotic (big O) notation and worst-case analysis. *PREREQUISITE: CS 132 or CS 145;and admission into a bachelor's program.*

**IT 355 Agile Development Methods (5)**

Technical practices include test driven development (unit testing), continuous integration, refactoring, pair programming, kanban boards, and simple design. Focuses on unit testing, functional testing, and acceptance testing and understanding the relationship between requirements, verification, and validation. Exposure to refactoring techniques.

**IT 372 Debugging, Maintenance and Evolution (5)**

Defect analysis and resolution is a process where software defects are identified, replicated, evaluated, and classified before repair, testing, and release. Tools used include bug/defect tracking software, source code control systems, and regression testing suites. Exposure to defect management practices such as triage and risk assessment. Students learn to upgrade an existing system without changing existing functionality. *PREREQUISITE: IT 378.*

**IT 405 Mobile Development Frameworks (5)**

Develop mobile (smartphone and tablet) apps using both native (e.g. iOS and Android) and cross platform frameworks. Compare the strengths and limitations of each platform and of each development framework. Topics include submission to the app store, deployment within an organization, licensing and pricing models, updates, scalability, and security and privacy issues. *PREREQUISITE: IT328.*

**IT 426 Collaborative Design (5)**

Software developers collaborate with clients, interaction designers, and end-users to design user interfaces, while working with technical team members to design the internal architecture and components of the software. Topics include prototyping, usability, design notations, design patterns, reuse, and design for change. Emphasis on design communication, design integrity, design tradeoffs, and negotiation. *PREREQUISITE: IT 328.*

**IT 434 Secure Development Practices (5)**

Information security is the practice of defending information from unauthorized access, use, disclosure, or destruction. Presents a holistic approach to addressing security in the entire software development lifecycle, not just as an afterthought. Topics include security as a non-functional requirement, security in multi-tier software architectures, secure coding practices, and testing techniques. *PREREQUISITE: IT 328.*

**IT 485 Product Initiation and Design (5)**

First of two capstone project courses. Technical team members partner with business team members and end users/customers to develop a product or service concept. Technical team uses Scrum for project management while reconciling it with the business team's use of traditional project management techniques. *PREREQUISITE: IT 355, IT 372, IT 405, IT 426, and IT 434.*

**IT 486 Production Construction and Deployment (5)**

Second of two capstone project courses. Technical teams use an Application Lifecycle Management tool, with bug tracking. Practices continuous integration techniques using version control system. Produces production-quality code. Delivers or deploys the product in regularly scheduled release cycles. Students present their products to a community of peers. *PREREQUISITE: IT 485.*

**Maintenance Mechatronics (MTX)**

**MTX 100 Maintenance Mechatronics 1 (1-13)**

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 ENGL 081, MATH 062, and READ 104; or instructor's permission.*

**MTX 110 Maintenance Mechatronics 2 (1-13)**

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: MTX 100; and Eligible for ENGL 081, MATH 062, and READ 104; or instructor's permission.*

**MTX 120 Maintenance Mechatronics 3 (1-13)**

Covers process based safety analysis for situational awareness during reactive maintenance. Equipment system design is studied using advanced simulation software. Electrical relay control systems are introduced, designed and implemented. Programmable logic controllers are introduced and programmed. Hydraulic and pneumatic training will prepare students for the International Fluid Power Society Certification testing. *PREREQUISITE: MTX 110; and Eligible for ENGL 081, MATH 062, and READ 104; or instructor's permission.*

**MTX 130 Maintenance Mechatronics 4 (1-13)**

Interpret Programmable Logic Computer programs to diagnose system failures in complex equipment. Utilize a systems approach to solve complex diagnostic problems. Introduction of closed loop servo systems and process control feedback loops. *PREREQUISITE: MTX 120; and Eligible for ENGL 081, MATH 062, and READ 104; or instructor's permission.*

**Music (MUSIC)**

**MUSC 125 Vocal Coaching for Singers (5)**

For absolute beginners to most advanced. Students prepare songs in a variety of styles, to sing at least weekly for the class and for a final recital. Instructor works with individual students on vocal technique, style-mastery, stage presence, and microphone techniques. Addresses stage fright and other performance issues. Implements peer evaluations and learning constructive and objective self-critique. *Satisfies humanities/fine arts/English requirement for AA degree.*

**Phlebotomy Technician (PHLEB)**

**PHLEB 101 Fundamentals of Phlebotomy (5)**

Students learn the role and responsibilities of becoming a phlebotomist in all types of health care facilities. Students demonstrate knowledge of legal issues and safety precautions/preventions related to phlebotomy practices. Students demonstrate professional appearance, value diversity in the workplace and possess the ability to communicate effectively and professionally with patient and staff. Students gain knowledge of quality assurance and quality control measures and adhere to policies and procedures used in the laboratory. Students demonstrate knowledge of blood-borne pathogens and practice the prevention and precautionary measures necessary to protect all individuals from exposure. *PREREQUISITE: Instructor's permission.*

**PHLEB 102 Phlebotomy Laboratory Skills (2)**

Students obtain knowledge of blood collection equipment, various types of additives used and special precautions and substances which interfere with testing. Students identify the types of equipment needed to collect blood by venipuncture and/or capillary source, utilizing appropriate devices. Students utilize antiseptics and disinfectants in all

procedures as appropriate. Students learn to compare various types of requisitions and practice reading simulated provider's orders. Students verbalize an understanding and respect for pre-analytical errors that may occur during collection. Students demonstrate transport and process of specimens. Students learn special collections such as blood banking, GTT, isolation, and PKU. Students simulate complications of blood draw such as syncope, phobias, and challenged draws. Students process verbal or written orders and give important verbal information or other pertinent concerns about the patient, policy, or practices to appropriate individuals. *PREREQUISITE: Instructor's permission.*

**PHLEB 103 Phlebotomy Technician Practicum (3)**

Under supervision, students collect blood specimens in a healthcare facility, using various techniques such as ETS, butterfly, syringe or capillary methods. Types of patients include elderly, children, outpatients and inpatients, including patients in the emergency room, under supervision of staff. Draws are done by STAT, or routine or possibly send-out testing. *PREREQUISITE: Instructor's permission.*

**Sociology (SOC)**

**SOC 271 Sociology of Deviance (5)**

Examines attitudes, behaviors, and conditions that violate the current, generally accepted norms and values in U.S. society. Specific topics include competing definitions of deviance, development of deviant careers, and consequences of deviant identities. Focus on use of sociological theory and the use of social controls. *PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.*

**Transitional Studies (TS)**

**TS 062 Language Arts in Social Studies Level 2 (5-10)**

Introduces Level 2 students to the basic principles of civics and government, US history, economics, geography, or current world problems. Students practice critical reading skills in the context of social studies-related texts. Students demonstrate analysis and understanding of social studies readings and concepts through the writing process. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 063 Language Arts in Social Studies Level 3 (5-10)**

Introduces Level 3 students to the basic principles of civics and government, US history, economics, geography, or current world problems. Students practice critical reading skills in the context of social studies-related texts. Students demonstrate analysis and understanding of social studies readings and concepts through the writing process. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 064 Language Arts in Social Studies Level 4 (5-10)**

Introduces Level 4 students to the basic principles of civics and government, US history, economics, geography, or current world problems. Students practice critical reading skills in the context of social studies-related texts. Students demonstrate analysis and understanding of social studies readings and concepts through the writing process. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 065 Language Arts in Social Studies Level 5 (5-10)**

Introduces Level 5 students to the basic principles of civics and government, US history, economics, geography, or current world problems. Students practice critical reading skills in the context of social studies-related texts. Students demonstrate analysis and understanding of social studies readings and concepts through the writing process. Students who successfully complete this course earn 21 high school credits in social studies. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 066 Language Arts in Social Studies Level 6 (5-10)**

Introduces Level 6 students to the basic principles of civics and government, US history, economics, geography, or current world problems. Students practice critical reading skills in the context of social studies-related texts. Students demonstrate analysis and understanding of social studies readings and concepts through the writing process. Students who successfully complete this course earn 21 high school credits in social studies. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 072 Language Arts and Literature Level 2 (5-10)**

Introduces Level 2 students to the basic principles of the mechanics of writing and strategies to develop and organize complex ideas in writing. Students practice critical reading skills and demonstrate understanding of a variety of texts, including fiction, nonfiction, and informational through the writing process. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 073 Language Arts and Literature Level 3 (5-10)**

Introduces Level 3 students to the basic principles of the mechanics of writing and strategies to develop and organize complex ideas in writing. Students practice critical reading skills and demonstrate understanding of a variety of texts, including fiction, nonfiction, and informational through the writing process. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 074 Language Arts and Literature Level 4 (5-10)**

Introduces Level 4 students to the basic principles of the mechanics of writing and strategies to develop and organize complex ideas in writing. Students practice critical reading skills and demonstrate understanding of a variety of texts, including fiction, nonfiction, and informational through the writing process. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 075 Language Arts and Literature Level 5 (5-10)**

Introduces Level 5 students to the basic principles of the mechanics of writing and strategies to develop and organize complex ideas in writing. Students practice critical reading skills and demonstrate understanding of a variety of texts, including fiction, nonfiction, and informational through the writing process. Students who successfully complete this course earn 21 high school credits in English. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 076 Language Arts and Literature Level 6 (5-10)**

Introduces Level 6 students to the basic principles of the mechanics of writing and strategies to develop and organize complex ideas in writing. Students practice critical reading skills and demonstrate understanding of a variety of texts, including fiction, nonfiction, and informational through the writing process. Students who successfully complete this

course earn High School 21+ credits in English. *PREREQUISITE: Appropriate CASAS placement score and instructor's permission.*

**TS 082 Language Arts and Literature Level 2 (5-10)**

Introduces Level 3 students to the basic principles of physical science through reading and writing. Also introduces students to the history and nature of science. Students explore the fundamental concepts of physics, chemistry, astronomy and earth science. *PREREQUISITE: Appropriate CASAS placement score and instructor's permission.*

**TS 083 Language Arts and Literature Level 3 (5-10)**

Introduces Level 3 students to the basic principles of physical science through reading and writing. Also introduces students to the history and nature of science. Students explore the fundamental concepts of physics, chemistry, astronomy and earth science. *PREREQUISITE: Appropriate CASAS placement score and instructor's permission.*

**TS 084 Language Arts and Literature Level 4 (5-10)**

Introduces Level 4 students to the basic principles of physical science through reading and writing. Also introduces students to the history and nature of science. Students explore the fundamental concepts of physics, chemistry, astronomy and earth science. *PREREQUISITE: Appropriate CASAS placement score and instructor's permission.*

**TS 085 Language Arts in Physical Science Level 5 (5-10)**

Introduces Level 5 students to the basic principles of physical science through reading and writing. Also introduces students to the history and nature of science. Students explore the fundamental concepts of physics, chemistry, astronomy and earth science. Students who successfully complete this course earn High School 21+ credits in science. *PREREQUISITE: Appropriate CASAS placement score and instructor's permission.*

**TS 086 Language Arts in Physical Science Level 6 (5-10)**

Introduces Level 6 students to the basic principles of physical science through reading and writing. Also introduces students to the history and nature of science. Students explore the fundamental concepts of physics, chemistry, astronomy and earth science. Students who successfully complete this course earn High School 21+ credits in science. *PREREQUISITE: Appropriate CASAS placement score and instructor's permission.*

**TS 101 College Link (2)**

Provides students the opportunity to learn and apply strategies that will promote their success in college life. Students complete a detailed personal portfolio and use this to develop a comprehensive plan for their career and education. Other major components of the class include leadership, dynamic learning theory, diversity & inclusion, and problem solving strategies.

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## REVISED COURSES

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## Aerospace and Advanced Manufacturing (AAM)

**AAM 107 Inspection 1** (7)  
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 systems. Students 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 ENGL 081, MATH 072, and READ 104.*

**AAM 108 Inspection 2** (7)  
Helps the student to select and set-up and inspect machine parts, based on specifications and tolerancing standards. Students learn to read and interpret 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 ENGL 081, MATH 072, and READ 104.*

## Accounting (Acct)

**ACCT 110 Practical Financial Accounting 1** (5)  
Elementary course covering the complete accounting cycle for service and merchandising businesses, as well as the basic functions of analyzing, classifying, recording, and summarizing accounting data. Topics may include journals, ledgers, worksheets, adjusting entries and financial statement preparation, receivables, payables and banking procedures. Includes a computerized general ledger application. *PREREQUISITE: Eligible for READ 104 or instructor's permission.*

**ACCT 111 Practical Financial Accounting 2** (5)  
A continuation of ACCT 110 with an emphasis on generally-accepted accounting principles. Topics may include payroll, special journals, receivables, payables, bad debts, notes and inventories. Includes computerized accounting applications. *PREREQUISITE: ACCT 110 with a grade of 2.0 or higher; or instructor's permission.*

**ACCT 113 Practical Accounting** (5)  
A continuation of ACCT 111. The last in the financial accounting series for the Associate in Applied Arts in Accounting. Topics may include accounting for property, plant and equipment, partnerships and corporations, bonds payable, the statement of cash flows, financial statement analysis and manufacturing accounting. May include integrated general ledger accounting software applications and spreadsheet applications. *PREREQUISITE: ACCT 111 with a grade of 2.0 or higher; and BA 145; or instructor's permission.*

## Art (ART)

**ART 110 Intermediate Design and Color** (5)  
Continues the study of two-dimensional design through exploration and understanding of color theory. In-depth exploration of color theory principles such as additive and subtractive color systems, color harmony and palette analysis, color interaction and the expressive impact of color. Digital and traditional media are used for visual problem solving exercises. *PREREQUISITE: ART 109 or instructor's*

*permission. Satisfies a humanities/fine arts/English requirement for AA degree.*

**ART 120 Introduction to Graphic Design** (5)  
Introduces the principles of graphic form to convey meaning and communicate ideas through text and imagery. Students learn the principles of visual communication through compositional-layout, color and typography in a variety of formats. Digital and traditional media are used for visual problem solving exercises. *PREREQUISITE: ART 109 or concurrent enrollment. Satisfies a humanities/fine arts/English requirement for AA degree.*

## Aviation (AVIA)

**AVIA 111 Private Pilot Ground School** (5)  
Includes aerodynamics, navigation, weather, communications, regulations, flight physiology, weight balance, and other subjects preparatory to the FAA private pilot written exam.

**AVIA 212 Human Factors for Aviators** (5)  
Covers human factors in aeronautical decision-making and situation-awareness. Emphasizes human error, personal attitudes and physical elements (pilot fitness, pilot workload, cockpit distractions, etc.), pilot preparedness, and effective use of crew resource management to manage and mitigate aviation risk. Includes accident case studies. *PREREQUISITE: AVIA 111 and AVIA 123; or instructor's permission.*

**AVIA 216 Basic Instrument Pilot Ground School (5)**  
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 or instructor's permission.*

## Business Technologies and Administrative Careers (BTAC)

**BTAC 100.1 Computer Fundamentals: Internet** (2)  
Self-paced course covering the following concepts: the Internet, using Microsoft Internet Explorer to access the world wide web, and using the more popular search engines. Recommended for students who are self-motivated, computer-literate, and self-disciplined. Presented as an independent learning environment with no instructor present.

**BTAC 100.2 Computer Fundamentals: Word** (2)  
Self-paced course covering the following concepts: Using Word to create documents, editing and proofing Word documents, and formatting Word documents. Recommended for students who are self-motivated, computer-literate, and self-disciplined. Presented as an independent learning environment with no instructor present.

**BTAC 100.3 Computer Fundamentals: Excel** (2)  
Self-paced course covering the following concepts: Using Excel to create worksheets, modifying Excel worksheets, formatting Excel worksheets, and creating charts. Recommended for students who are self-motivated, computer-literate, and self-disciplined. Presented as an independent learning environment with no instructor present.

**BTAC 100.4 Computer Fundamentals: Access (2)**

Self-paced course covering the following concepts: Using Access to create databases, manipulating data in a database, creating forms, creating reports, and creating queries. Recommended for students who are self-motivated, computer-literate, and self-disciplined. Presented as an independent learning environment with no instructor present.

**BTAC 100.5 Microcomputer Fundamentals: PowerPoint (2)**

Self-paced course covering the use of PowerPoint to create presentations. Recommended for students who are self-motivated, computer-literate, and self-disciplined. Presented as an independent learning environment with no instructor present.

**BTAC 101 Beginning Keyboarding (5)**

Uses keyboards to record words and data in the business office, as well as in personal communication. Students learn to operate the alphabet, number, and symbol keys on a computer by touch. Emphasizes speed and accuracy skill development. Students apply these computer skills to formatting basic business documents using a current word processing program. For students with little or no prior keyboarding instruction.

**BTAC 102 Intermediate Keyboarding (5)**

Builds on the keyboarding skills and concepts developed in BTAC 101. Continues emphasis on speed and accuracy development on a computer keyboard. Students use a word processing program to refine formatting skills on basic business documents such as business letters, memorandums, reports, and tables. *RECOMMEND: BTAC 112 and a minimum typing speed of 30 wpm. PREREQUISITE: BTAC 101 with a grade of 2.0 or higher or equivalent.*

**BTAC 103 Advanced Keyboarding (5)**

Builds on the keyboarding skills and concepts developed in BTAC 102. Continues emphasis on speed and accuracy development on a computer keyboard. Students use a word processing program to further refine formatting skills on a computer. Students enhance their ability to make decisions and to work independently. *RECOMMEND: A minimum typing speed of 30 wpm. PREREQUISITE: BTAC 102 or equivalent and BTAC 112, all with a grade of 2.0 or higher.*

**BTAC 111 Introduction to Computer Literacy (5)**

Introduction to the personal computer in a small office/home setting. Includes terminology, file management, word processing, e-mail, the Internet, Green River's Learning Management System, and an introduction to information literacy. No previous computer experience required. *RECOMMEND: Eligible for READ 094. Satisfies an activity requirement for AA degree.*

**BTAC 132 Business Communication Applications (5)**

Focuses on the use of the PowerPoint, Outlook and One Note applications. Includes basic and advanced concepts for each application and their usage in business. *PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; or instructor's permission.*

**BTAC 202 Medical Production Keyboarding (5)**

Helps develop decision making skills and improves keyboarding (typing) and proofreading skills. Students work from an unarranged medical copy with minimal narrative instruction. Emphasizes speed and accuracy improvement, as well as medical terminology. Projects include preparation of documents commonly prepared in a medical office setting using a current word processing program. Projects include

medical correspondence, documents and records, reports, forms, and tables. Emphasizes producing error-free copy. *RECOMMEND: A typing speed of 60 wpm. PREREQUISITE: BTAC 102, BTAC 112 and BTAC 125, all with a grade of 2.0 or higher.*

**BTAC 216 Computer Support Internship I (2-5)**

Students assist Business Technologies and Administrative Careers (BTAC) instructors with computer applications and basic hardware functions. *PREREQUISITE: Instructor's permission.*

**BTAC 217 Computer Support Internship 2 (2-5)**

Students assist Business Technologies and Administrative Careers (BTAC) instructors with computer applications and basic hardware functions. *PREREQUISITE: BTAC 216 and Instructor's permission.*

**BTAC 220 Technology in the Legal Office (5)**

Provides a study of the impact and use of technology in the legal office. Topics include ethical issues in using technology in a legal office; legal use of hardware and software; use of the Internet, cloud computing, and computer applications by legal assistants and the court system. *PREREQUISITE: BTAC 100, BTAC 103 and BTAC 109, all with a grade of 2.0 or higher; Eligible for ENGL 099; or instructor's permission.*

**BTAC 235 Legal Office Procedures (5)**

Provides a study of activities most often performed by a legal assistant. Topics include legal office environment, communication services and management, legal code of ethics, scheduling/docketing techniques, messenger services, Washington's legal court system structure, legal billing procedures, wills/probate procedures, job search and informational interview, preparation of job-ready resume/portfolio, leadership, and human relations. *PREREQUISITE: BTAC 100, BTAC 102, and BTAC 109, all with a grade of 2.0 or higher. RECOMMEND: BTAC 220 or concurrent enrollment.*

**BTAC 246 Advanced Coding (5)**

Covers advanced case studies using complex code assignment with the International Classification of Diseases (ICD), Current Procedural Terminology (CPT), and Healthcare Common Procedural Coding System (HCPCS) Level II codes. Discusses implications of Diagnostic Related Groups (DRGs) and their relationship to coding assignment and finances. Covers theory and practice in advanced coding problem-solving, data, quality control. Students continue utilization of computerized encoder. *PREREQUISITE: BTAC 145 and BTAC 146, both with a grade of 2.0 or higher; or instructor's permission.*

**BTAC 266 Inside Microsoft Office (5)**

Focuses on the use of advanced Microsoft Office applications including object linking and embedding (OLE) and the integration of applications. Enhances prior application skills. These skills culminate in a professional PowerPoint group presentation that also may incorporate Word, Excel, and Access concepts. *PREREQUISITE: BTAC 100 or IT 101, with a grade of 2.0 or higher; or instructor's permission. RECOMMEND: BTAC 112, BTAC 132, BTAC 150, BTAC 162, and BTAC 185.*

**BTAC 297 Independent Study-Business Technologies and Administrative Careers (1-5)**

Includes special courses and topics designed for students such as individual learning in the Business Technologies and Administrative Careers programs. Students may register for a contracted learning experience by obtaining permission from a Business Technologies and

Administrative Careers (BTAC) faculty advisor. *PREREQUISITE: Instructor's permission.*

## Business Marketing and Entrepreneurship (BUS)

### **BUS 194 Special Topics-Business Management 1 (5)**

Students study and train to meet established needs in business, sales, and supervision practices. Course content varies each time it is offered. Intended to meet the needs of each student. *PREREQUISITE: Instructor's permission.*

## Communication Studies (CMST)

### **CMST 100 Fundamentals of Oral Communication (5)**

Develops critical thinking and problem-solving skills related to communication in business and organizational settings. Includes job search skills, cover letters, resume writing, and interviewing. Oral activities include interpersonal exercises, group discussions, and giving directions. *PREREQUISITE: Eligible for ENGL 099; or completion or concurrent enrollment in ENGL 109; or instructor's permission.*

### **CMST 238 Intercultural Communication (5)**

Looks at communication across cultures on the interpersonal and inter-group levels. Investigates the components of culture that work to affect the communication of members in and across cultures, including consideration of the role of culture on majority and minority cultural groups related to race, ethnicity, gender, sexual orientation, class, disability, religion, age, immigration, etc. Examines different aspects of the communication process as they relate to intercultural communication, including perception, language, nonverbal communication, etc. Considers the overview of prevalent theories and practical applications. *PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirement for AA degree.*

### **CMST 265 Introduction to Popular Culture (5)**

Introduces theories and practices of popular culture, their relationship to both the center and margins of popular culture, and the ways popular culture can shape our perceptions of race, class, gender, sexuality, etc. Introduces some of the important critiques of culture and covers 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, advertising, comics, television, etc.) *PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine art/English and diversity course requirement for AA degree.*

### **CMST& 210 Interpersonal Communication (5)**

For students who wish to gain greater insight into communication that occurs in more personal relationships in order to better understand and control their own communication behavior, and thus more effectively manage their interpersonal relationships. *PREREQUISITE: Eligible for ENGL 099; or completion of ENGL 109; or instructor's permission. Satisfies a humanities/fine Arts/English requirement for AA degree.*

### **CMST& 220 Public Speaking (5)**

A course in public speaking that helps students develop confidence and competence in addressing diverse audiences in community and

professional settings. Students compose and deliver speeches, as well as evaluate others' presentations. Emphasizes choice and organization of material, sound reasoning, audience analysis, and delivery. *PREREQUISITE: Eligible for ENGL 099; or completion of ENGL 109; or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.*

## Computer Reporting Technologies (CRPT)

### **CRPT 090.1 Machine Shorthand Theory-Beginning (3-4)**

Students study the theory and arrangement of the keyboard. Teaches StenEd Realtime Theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. *PREREQUISITE: Instructor's permission.*

### **CRPT 100.1 Machine Shorthand Theory 1 (10)**

Students study the theory and arrangement of the keyboard. Teaches StenEd Realtime Theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. *PREREQUISITE: Instructor's permission.*

### **CRPT 102 Machine Shorthand 80wpm (10-12)**

Concentrated drill and dictation on two-voice testimony, jury charge, literary, and medical material. Students should attain 80 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 093 or 101.2.*

### **CRPT 133 Machine Shorthand 100wpm (12-16)**

Concentrated drill and dictation on two-voice testimony, jury charge, literary, and medical material. Students should attain 100 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 094 or 102.*

### **CRPT 134 Machine Shorthand 120wpm (12-16)**

Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 120 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 095 or 133.*

### **CRPT 135 Machine Shorthand 140wpm (12-16)**

Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 140 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 096 or 134.*

### **CRPT 136 Machine Shorthand 160wpm (8-16)**

Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 160 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 097 or 135.*

### **CRPT 201 Machine Shorthand 180wpm (12-16)**

Concentrated drill and dictation on two-voice and multi-voice testimony, jury charge, literary, and medical material. Students should attain 180 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 098 or 136.*

### **CRPT 202 Machine Shorthand 200wpm (12-16)**

Concentrated drill and dictation on two-voice and multi-voice testimony, jury charge, literary, and medical material. Students should

attain 200 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 201.*

**CRPT 203 Machine Shorthand 225wpm (12-16)**

Concentrated drill and dictation on two-voice and multi-voice testimony, jury charge, literary and medical material. Students should attain 225 wpm on two voice testimony with a minimum of 95 percent accuracy, 200 wpm on jury charge and 180 wpm on literary with a minimum of 95 percent in transcription. *PREREQUISITE: CRPT 202.*

## Computer Science (CS)

**CS 145 Java 2-Data Structures (5)**

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 trade-offs. 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 minimum grade of 2.0. Satisfies a natural science requirement for AA degree.*

## Design Technology (D T)

**D T 105 Design Drafting Careers (2)**

Covers design drafting including the types of jobs, required skills, and degree and certificate programs offered at Green River. Introduces competencies required for design drafting. Students prepare a program of study to achieve their educational goal.

**D T 115 Geometric Dimensioning and Tolerancing (4)**

Geometric Dimensioning and Tolerancing (GD&T) is an international technical language of symbols used to describe the function and relationship of a part's feature. The symbology of GD&T, as defined in the ASME Y14.5 standard, is understood and applied by all designing and manufacturing communities. Students learn to recognize, interpret and apply GD&T theories and symbols. Students study applicable mathematical formulas.

## Early Childhood Education (ECED)

**ECED& 107 Health, Safety and Nutrition (5)**

Explores the interrelated roles of the home, school and community in meeting the health, safety, and nutritional needs of young children. Topics include nutrition, common childhood diseases, immunizations, accident prevention, emergency care, and special health problems. Presents referral procedures in using school and community resources to meet the health and safety needs of children. Formerly ECE 140.

## Education (EDUC)

**EDUC 191 The Role of the Paraeducator (3)**

Based on the Washington state Paraeducator standards, this course introduces students to the training needed to work as effective members of an instructional team in the P-12 system. Provides an understanding of direct services to children and youth, including youth

with disabilities. Introduces the student to the roles, responsibilities, and techniques of certificated/licensed staff and paraeducators.

**EDUC 210 Assisting Practicum (3-6)**

Students work with children in the classroom, learning and demonstrating the fundamentals of developmentally-appropriate and culturally-sensitive practices. Students participate online each week, linking the practicum experience to theory. *Satisfies an activity requirement for AA degree.*

**ENGL 081 Fundamentals of Written Communication (5)**

A writing course that focuses on the skills designed to prepare students for ENGL 099 or professional/technical degrees. Introduces students to the writing process so they can write well-organized and developed paragraphs and short essays. Students study grammar, basic sentence structure, mechanics, punctuation, and improve vocabulary and spelling. Students also read works that include various rhetorical structures and themes in order to improve critical reading and writing skills. *PREREQUISITE: BASIC 060 or COMPASS placement; and eligible for READ 094. Note: Some students from certain school districts are eligible for the transcript placement option.*

**ENGL 100 Introductory Composition (5)**

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.

**ENGL 239 Espial Workshop (3)**

Course leads students through the process of creating a student-centered literary and art journal for Green River. Students are assigned to specific tasks and charged with all elements of the production of a journal of student fiction, poetry, and artwork/photography.

**ENGL& 101 English Composition I (5)**

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. *Satisfies basic skills requirement for AA degree. PREREQUISITE: ENGL 099 and READ 094 with a 2.0 or higher; appropriate Reading COMPASS score; or high school transcript. Note: Some students from certain school districts are eligible for the transcript placement option.*

## English for Speakers of Other Languages (ESOL)

**ESOL 011 English for Speakers of Other Languages Level 1 (1-18)**

Low-beginning level of ESOL for students who are permanent residents of Washington State. These students are generally literate in their first language, but have no English or limited English. These students may have some verbal skills, but little or no reading or writing skills. Students study the alphabet, phonics, the calendar, numbers, family vocabulary and communicating basic personal information both orally and in writing. Students learn organizational skills and learn to function in a classroom setting. *PREREQUISITE: ESOL 010, placement test, and instructor's permission. This is a pass/no-credit course.*

**ESOL 012 English for Speakers of Other Languages Level 2 (1-18)**

Beginning-level of ESOL for students who are permanent residents of Washington State. Students study time, money, family, be verbs, and

other common present tense verbs. Students begin to understand and use more authentic speech in describing their daily activities. Students read short simplified paragraphs on everyday subjects and write simple sentences on familiar topics. Students learn organizational skills and learn to function in a classroom setting. *PREREQUISITE: ESOL 011, placement test, and instructor's permission. This is a pass/no-credit course.*

**ESOL 013 English for Speakers of Other Languages Level 3 (1-18)**  
High-beginning level of ESOL for students who are permanent residents of Washington State. Students begin to understand simple spoken or written learned phrases and new phrases containing familiar vocabulary. Students express essential survival needs including asking questions and communicating personal information. Students write short sentences on familiar subjects and fill out basic personal information on forms. Students learn organizational skills and learn to function in a classroom setting. *PREREQUISITE: ESOL 012, placement test and instructor's permission. This is a pass/no-credit course.*

## Information Technology (IT)

**IT 101 Introduction to Information Technology (5)**  
Provides an overview of information technology. Introduces computer hardware, software, procedures and systems, and their applications in various segments of society. Introduces information about careers in software development, networking, and security. Discussion of computer ethics and current events. *PREREQUISITE: Eligible for READ 094 or instructor's permission.*

**IT 102 Introduction to Programming (5)**  
An introductory programming class. Covers procedural programming, decision statements, loops, file processing, variables, and arrays.

**IT 114 CompTIA A+ Certification Preparation (7)**  
A preparation course for the CompTIA A+ certification, an IT industry recognized entry level certification. Students learn about installation, maintenance, troubleshooting and repair of information and communication technology hardware and software. Covers all current CompTIA A+ certification exam objectives.

**IT 121 Introduction to HTML and CSS (5)**  
Students learn the fundamentals of Hypertext Markup Language (HTML) to create a web page with content, graphics, links, tables, and forms. Using Cascading Style Sheets (CSS), students learn to control page layout, colors, fonts and other design elements.

**IT 131 Networking Fundamentals (5)**  
Introduces networking to students who are interested in a career managing routers and switches. Topics include TCP/IP and OSI modules, subnetting, protocols, network applications, switching and routing fundamentals, and an introduction to configuring Cisco routers and switches. *PREREQUISITE: 114 or instructor's permission.*

**IT 135 CompTIA Security+ Certification Preparation (5)**  
Provides students with a broad foundation of network security knowledge. Topics include security fundamentals, overview of cryptography, security policies and procedures, common types of attacks, and how to implement network security measures.

**IT 141 Customer Service and Work Environment for IT Professionals (4)**  
Focuses on the knowledge and skills required to be a part of a successful help-desk team. Topics include communication skills, writing skills, telephone skills, techniques for managing customer expectations, understanding customer behavior, working as part of a team, and minimizing stress in the work environment. Covers interviewing and preparing for the job search experience in the IT field. Prepares students to do job searches, prepares resumes and cover letters, and to dress professionally for the work environment. Uses taped practice interview sessions to improve interviewing skills. Students learn proper e-mail techniques and meeting etiquette.

**IT 160 Windows Server Administration I (5)**  
Provides students with the knowledge and skills necessary to install and configure Microsoft Windows Server.

**IT 175 Student Assistant (1-4)**  
Student works in the computer lab. Includes assisting with lab activities. *PREREQUISITE: Instructor's permission. This is a pass/no-credit course.*

**IT 178 IT Work Experience (1-8)**  
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: Instructor's permission. This is a pass/no-credit course.*

**IT 190 Linux Administration 1 (5)**  
Provides hands-on experience in installing and configuring the Linux operating system. Presents an introduction to basic Linux commands and Linux administration tasks.

**IT 201 Database Fundamentals (5)**  
Students analyze real world scenarios, organize data into relational tables for storage, and query information for reporting through the use of a database management system (DBMS). Focus on using Structured Query Language (SQL) as the means to create, modify, and maintain database tables, queries, views, and constraints. Students practice their database design skills through hands-on exercises and labs.

**IT 210 Introduction to Routing and Switching (5)**  
Focuses on the knowledge and skills to implement and configure routing and switching. Topics include device configuration, IPv4, IPv6, Subnetting, virtual local area networks (VLANs), routing protocols, and wide area networking (WAN) technologies. *PREREQUISITE: IT 131 or instructor's permission.*

**IT 220 Software Development Methods (5)**  
An intermediate course in programming that emphasizes modern software development methods. An introduction to the software development life cycle and processes. Topics include requirements analysis, specification, design, implementation, and verification. Emphasizes the role of the individual programmer in large software development projects. *PREREQUISITE: CS& 131 or CS& 141; or instructor's permission.*

**IT 240 Windows Server Administration II (5)**  
Gives students the ability to administer and troubleshoot a Microsoft Windows Server network infrastructure. *PREREQUISITE: IT 131 and IT 160; or instructor's permission.*



**IT 243 Linux Administration II (5)**  
Provides hands-on experience in installing and configuring advanced Linux networking and security. *PREREQUISITE: IT 190 or instructor's permission.*

**IT 245 Windows Server Administration III (5)**  
Provides students with the knowledge and skills necessary to install, configure, and administer advanced directory services. Focuses on performing tasks that are required to centrally manage users' computers and resources. *PREREQUISITE: IT 160 or instructor's permission.*

## Music (MUSC)

**MUSC 127 Green River Jazz Voices 1 (1-5)**  
Prepares and presents choral music in classical, jazz, and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. **BY AUDITION ONLY.** *PREREQUISITE: Instructor's permission. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.*

**MUSC 128 Green River Jazz Voices 2 (1-5)**  
Prepares and presents classical, jazz, and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. **BY AUDITION ONLY.** *PREREQUISITE: MUSC 127 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.*

**MUSC 129 Green River Jazz Voices 3 (1-5)**  
Prepares and presents choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. **BY AUDITION ONLY.** *PREREQUISITE: MUSC 128 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.*

**MUSC 227 Green River Jazz Voices 4 (1-5)**  
Students prepare and present choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. **BY AUDITION ONLY.** *PREREQUISITE: MUSC 129 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.*

**MUSC 228 Green River Jazz Voices 5 (1-5)**  
Students prepare and present choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. **BY AUDITION ONLY.** *PREREQUISITE: MUSC 227 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.*

**MUSC 229 Green River Jazz Voices 6 (1-5)**  
Students prepare and present choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. **BY AUDITION ONLY.**

*PREREQUISITE: MUSIC 228 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.*

## Natural Resources (NATRS)

**NATRS 100 Introduction to Natural Resources (5)**  
Introduces the study of natural resources outdoors and in a classroom setting. Explores natural resources careers. Introduces concepts of systems, Biomes, forest biology, tree physiology, forest ecology, silviculture, water resources, fish and wildlife management, and fire ecology. Students study forest history, forest policy, and forest ownership. *PREREQUISITE: Eligible for ENGL 099. NATRS 172 or concurrent enrollment and instructor's permission.*

## Nutrition (NUTR)

**NUTR& 101 Nutrition (5)**  
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. *PREREQUISITE: AP 100, AP 103 or BIOL& 160. Satisfies a natural science requirement for AA degree.*

## Occupational Therapy Assistant (O T)

**O T 110 Fundamentals of Occupational Therapy as Health Care Providers (4)**  
Students learn basic patient-therapist interaction and communication skills, introductory use of medical terminology, patient confidentiality and HIPPA rules, infection control and blood borne pathogens guidelines, and time management skills. Students earn CPR and basic First Aid certificates, and HIV/AIDS certification. *PREREQUISITE: Instructor's permission.*

**O T 114 Physical Disabilities 1 (5)**  
Study of anatomical, physiological and pathological factors relative to specific clinical conditions. Includes a study of basic treatment theory and techniques. Lab allows for practical experience in patient assessment, transfers and daily living skills. *PREREQUISITE: H SCI 102 and instructor's permission.*

**O T 116 Physical Disabilities 2 (5)**  
Understand the effects of heritable diseases, genetic conditions, disability, trauma, and injury to the physical and mental health and occupational performance of the individual. Demonstrate knowledge and understanding of the structure and function of the human body to include the biological and physical sciences of specific clinical conditions. Describe and demonstrate basic assessment and treatment approaches utilized in occupational therapy intervention of the physically disabled through practical experiences in a lab setting. *PREREQUISITE: O T 114 and instructor's permission.*

**O T 120 Professional Advocacy Experience (1)**  
Acquaints students with therapy practitioner's responsibilities in professional activities and for promotion of occupational therapy to other professionals, consumers, third-party payers and the public. *PREREQUISITE: Instructor's permission.*

## CANCELLED COURSES

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**OT 178 Application of Occupational Therapy 2 (1)**  
 Students participate in supervised clinical experience with patients in a community health care facility. Includes observation, planning and implementation of patient treatments as assigned by clinical supervisor. *PREREQUISITE: Instructor's permission and concurrent enrollment in OT 225. This is a pass/no-credit course.*

### Reading (READ)

**READ 084 Reading Essentials (5)**  
 For students who wish to develop a solid foundation of basic reading skills as preparation for college and workplace reading needs. Class builds reading proficiency, reading fluency and vocabulary. In addition to classroom instruction, class utilizes an internet reading program and website as a means of communication. *PREREQUISITE: Appropriate placement score or instructor's permission.*

### Transitional Studies (TS)

**TS 065 Language Arts in Social Studies Level 5 (5-10)**  
 Introduces Level 5 students to the basic principles of civics and government, US history, economics, geography, or current world problems. Students practice critical reading skills in the context of social studies-related texts. Students demonstrate analysis and understanding of social studies readings and concepts through the writing process. Students who successfully complete this course earn 21 high school credits in social studies. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 066 Language Arts in Social Studies Level 6 (5-10)**  
 Introduces Level 6 students to the basic principles of civics and government, US history, economics, geography, or current world problems. Students practice critical reading skills in the context of social studies-related texts. Students demonstrate analysis and understanding of social studies readings and concepts through the writing process. Students who successfully complete this course earn 21 high school credits in social studies. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 075 Language Arts and Literature Level 5 (5-10)**  
 Introduces Level 5 students to the basic principles of the mechanics of writing and strategies to develop and organize complex ideas in writing. Students practice critical reading skills and demonstrate understanding of a variety of texts, including fiction, nonfiction, and informational through the writing process. Students who successfully complete this course earn 21 high school credits in English. *PREREQUISITE: Appropriate placement score on CASAS and instructor's permission.*

**TS 076 Language Arts and Literature Level 6 (5-10)**  
 Introduces Level 6 students to the basic principles of the mechanics of writing and strategies to develop and organize complex ideas in writing. Students practice critical reading skills and demonstrate understanding of a variety of texts, including fiction, nonfiction, and informational through the writing process. Students who successfully complete this course earn High School 21+ credits in English. *PREREQUISITE: Appropriate CASAS placement score and instructor's permission.*

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 AVIA 226  
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 R EST 104  
 R EST 205



Standard: Green River College does not discriminate on the basis of race, creed, color, national origin, sex, sexual orientation, age, marital status, religion, disability, genetic information or on any other unlawful basis. The college is committed to preventing and stopping discrimination, including harassment of any kind and any associated retaliatory behavior.

The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President of Human Resources, 12401 SE 320th Street, Auburn, WA 98092-3622, (253) 288-3320. To receive this information in an alternate format, please contact Disability Support Services at (253) 833-9111, ext. 2631; TTY (253) 288-3359.

Green River College has made reasonable efforts to provide information that is accurate at the time of publication. However, the college reserves the right to make appropriate changes in procedures, policies, calendars, requirements, programs, courses, and fees. When feasible, changes will be announced prior to their effective dates, but the college assumes no responsibility for giving any particular notice of such changes. Nothing herein shall be construed to create any offer to contract or contractual rights.

The above program of study was current at the time of printing. The program may have been updated or changed to remain industry current. For program updates, please go to our web site at [greenriver.edu](http://greenriver.edu) or contact the faculty adviser listed.