

Catalog

Aeronautics Addendum Green River College 2016

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1965-2015

GREEN RIVER
COLLEGE

greenriver.edu



STUDENT RESOURCES

Veterans Education Benefits

- Selected programs of study at Green River College are approved by the Workforce Training and Education Coordinating Board's State Approving Agency (STECB/SAA) for enrollment in those eligible to receive benefits under Title 38 and Title 10, USC.
- Green River College does not and will not provide any commission, bonus, or other incentive payment based directly or indirectly on success in securing enrollment or financial aid to any persons or entities engaged in any student recruiting or admissions activities or in making decisions regarding the award of student financial assistance.
- The Code of Federal Regulations (38 CFR 21.4201) states that the Department of Veterans Affairs (VA) shall not approve the enrollment of any VA-eligible person, not already enrolled, in any course for any period during which more than 85 percent of the students enrolled in the course are having all or part of their tuition, fees, or other charges paid to or for them by an educational institution or the VA. VA is requesting that you provide this information within 30 days of this request.

Academic Program Revisions

- Federal regulations prevent the VA/SAA from approving programs that include training that the Secretary of VA deems "avocational" or "recreational." Private pilot training has been determined, by the VA, to fit this definition, therefore Green River College may no longer approve VA education benefits for programs that include private pilot training.
- Students using VA education benefits may do so within the Professional Pilot Associate in Applied Science (AAS) and/or Commercial Pilot Option degrees. The Commercial Pilot Fixed Wing Pilot Option AAS is not approved for VA education benefits.



PROFESSIONAL/TECHNICAL DEGREES AND CERTIFICATES

(This section contains new, re-instated, revisions, and cancelled degrees and certificates)

**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.

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Dept./No.	Course Title	Credits
Lifetime Fitness/Wellness/ Activity	Any course listed under the AA degree	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 Btac 255	Beginning Word or 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 Btac 163	Introduction to Excel or Advanced Excel	5
Btac 163 or Btac 185 or Btac 255	Advanced Excel or Introduction to Access or 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 Cmst& 210 or Cmst& 220 or Cmst& 230	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication	5
Coop 171	Work Experience Seminar	1
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test score) or completion of Read 094	0-5

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

Acct 110 or Btac 090	Practical Financial Accounting 1 or 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 147 or Btac 148 or Btac 149	Beginning Keyboarding-Alphabet Keys or Keyboarding-Mastering 10-Key & Symbols or Keyboarding-Speed and Accuracy-Skill Building	
Btac 151 or Btac 152 or Btac 153 or Btac 154 or Btac 155	Word: Create, Edit and Format or Word: Tables and Sharing Documents or Word: Mail Merge and Other Productivity Tools or Word: Create a Newsletter or Word: Creating Forms, Macros and Document Security	1
Btac 163	Advanced Excel	5
Btac 165 or Btac 166 or Btac 167	Access: Use Queries to Produce Information or Access: Create and Modify Forms or Access: Create and Modify Reports	1
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 187 or Btac 188 or Btac 189	PowerPoint: Preparing a Presentation or PowerPoint: Designs with Graphics and Multimedia or PowerPoint: Customize and Incorporate Web Features	1
Btac 191 or Btac 192 or Btac 193 or Btac 194	Excel: Introduction to Formulas and Functions or Excel: Charts and Working with Large Worksheets or Excel as a Database or Excel: Data Consolidation and What-If Analysis	
Btac 195	Excel: Collaboration, the Web and Macros	1
Btac 216	Computer Support Internship 1	5
Btac 255	Advanced Word	
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	Btac 163 Advanced Excel
Bus 166	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.*

**Administrative Assistant
Certificate**

55-60 Credits

This certificate program provides students an opportunity to develop essential business skills. Earning an Administrative Assistant Certificate will prepare the student for 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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Dept./No.	Course Title	Credits
Btac 100	Fundamentals of Computers	5
* Btac 102	Intermediate 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 250	Office Relations and Procedures	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
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test 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 I or	
Btac 090	Office Accounting	5
Acct 112	QuickBooks for 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 101	Beginning 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	Introduction to Computer Literacy	5
° Btac 115	Professional Image Building	1
Btac 147 or	Beginning Keyboarding-Alphabet Keys or	
Btac 148 or	Keyboarding-Mastering 10-Key and Symbols or	
Btac 149	Keyboarding-Speed and Accuracy-Skill Building	1
Btac 151 or	Word: Create, Edit and Format Documents or	
Btac 152 or	Word: Tables and Sharing Documents or	
Btac 153 or	Word: Mail Merge and Other Productivity Tools or	
Btac 154 or	Word: Create a Newsletter or	

Btac 155	Word: Creating Forms, Macros and Document Security	1
Btac 163	Advanced Excel	5
Btac 164 or	Access: Create and Modify a Database or	
Btac 165 or	Access: Use Queries to Produce Information or	
Btac 166 or	Access: Create and Modify Forms or	
Btac 167	Access: Create and Modify Reports	1
Btac 184	Internet and Basic Web Design	5
Btac 185	Introduction to Microsoft Access	5
Btac 187 or	PowerPoint: Preparing a Presentation or	
Btac 188 or	PowerPoint: Designs with Graphics and Multimedia or	
Btac 189	PowerPoint: Customize and Incorporate Web Features	1
Btac 191 or	Excel: Introduction to Formulas and Functions or	
Btac 192 or	Excel: Charts and Working with Large Worksheets or	
Btac 193 or	Excel as a Database or	
Btac 194 or	Excel: Data Consolidation and What-If Analysis or	
Btac 195	Excel: Collaboration, the Web and Macros	1
† Btac 177-179 and	BTAC Work Experience 1-3 and	2-10
Coop 171	Work Experience Seminar	1
Btac 184	Internet and Basic Web Design	5
Btac 185	Introduction to Microsoft Access	5
Btac 214	Introduction to Information Security	5
Btac 255	Advanced Word	5
Btac 266	Inside Microsoft Office	5
Engl 105	Grammar and Usage	5

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

† Students may earn up to 10 credits through Co-op classes.

Satisfies related instruction requirements.

° Qualifies as AAA and AA-DTA activity credit.

**Data Entry
Certificate of Proficiency**
15 Credits

These classes may be applied toward the two-year Associate in Applied Arts degree. Students in this program must complete each class with a grade of 2.0 or higher.

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Dept./No.	Course Title	Credits
Btac 100	Fundamentals of Computers	5
Btac 101 or	Beginning Keyboarding or	
Btac 102	Intermediate Keyboarding	5
Btac 110	Business Math Applications	5

File Clerk
Certificate of Proficiency
 15 Credits

These classes may be applied toward the two-year Associate in Applied Arts Degree. Students in this program must complete each class with a grade of 2.0 or higher.

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Dept./No.	Course Title	Credits
Btac 100	Fundamentals of Computers	5
Btac 101 or Btac 102	Beginning Keyboarding or Intermediate Keyboarding	5
Btac 140	Records Management	5

Office Support 1
Certificate of Proficiency
 15 Credits

These classes may be applied toward the two-year Associate in Applied Arts degree. Students in this program must complete each class with a grade of 2.0 or higher.

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Dept./No.	Course Title	Credits
Btac 102	Intermediate Keyboarding	5
Btac 112	Beginning Word	5
Btac 130	Business Correspondence	5

Office Support 2
Certificate of Proficiency
 15 Credits

These classes may be applied toward the two-year Associate in Applied Arts Degree. Students in this program must complete each class with a grade of 2.0 or higher.

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Dept./No.	Course Title	Credits
Btac 132	Business Communications Applications	5
Btac 140 or Btac 150	Records Management or Introduction to Windows	5
Btac 162	Introduction to Excel	5

Automotive Technology
Associate in Applied Science Degree
 97-106 Credits

This degree program prepares the student for employment in the automotive industry.

Graduates of the program achieve competencies set forth by the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE) and obtained related education in the fields of leadership, human relations and communication.

Credit for hours of training is usually granted to those entering into an approved apprenticeship program and is granted for the certification experience requirement.

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

New students must show proof of a valid driver's license.

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Dept./No.	Course Title	Credits
First Quarter		
	Reading requirement Eligible for Read 104	
Atech 110	Shop Procedures	2
Atech 116	Suspension and Steering	6
Atech 117	Brakes	7
Atech 150	Automotive Leadership Skills 1	1
# Cmst 100	Fundamentals of Oral Communication	5
Second Quarter		
# Acomp 101 or Math 062	Computations for the Trades or Review of Arithmetic or Eligible for Math 070, Pre-Algebra	0-5
Atech 111	Electrical and Electronics Systems	14
Atech 151	Automotive Leadership Skills 2	1
Third Quarter		
Atech 112	Engine Performance	
Atech 113	Engine Repair	3
Atech 152	Automotive Leadership Skills 3	1
Indus 111	Welding Survey 1	
Fourth Quarter		
Atech 112	Engine Performance	
Atech 115	Manual Drive Trains and Axles	6
Atech 153	Automotive Leadership Skills 4	1
# Engl 109	Writing for Trades and Professional/Technical Degrees	5
Fifth Quarter		
Atech 114 and/or Atech 101	Automotive Transmission and Transaxle and/or State Emission Control Specialist Phase 1	4-8
Atech 118	Heating and Air Conditioning	6
Atech 154	Automotive Leadership Skills 5	1
# Human Relations	Any course that satisfies the Human Relations Related Instruction Requirements	5



Sixth Quarter

Atech 119 or	Special Shop Practice or	
Atech 177	Auto Work Experience 1	12

Satisfies related instruction requirements.

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

**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. 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.

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Dept./No.	Course Title	Credits
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General Education Requirements (60 credits)		
Communication Skills (15 credits)		
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
Engl 335 and	Advanced Technical Writing and	
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	10
Quantitative/Symbolic Reasoning Skills (5 credits)		
Math 106 or	Essentials of Precalculus Math or	
Math& 107 or	Math in Society or	
Math 108 or	Contemporary Math for Information Technology or	

Math& 141 or higher	Precalculus I or higher	5
Humanities/Fine Arts/English (10 credits)		
Cmst 338 or	Diversity in the Workplace or Five credits from the list of humanities, fine arts or English courses from the AA-DTA degree	5
Phil 412 or	Professional Ethics or Five credits from the list of humanities, fine arts or English courses from the AA-DTA degree	5
Natural Sciences (15 credits)		
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 (10 credits)		
Ten credits from the list of social science courses approved from the AA-DTA degree.		10
Additional General Education (5 credits)		
Five credits from the list of courses from the humanities, fine arts or English, social science, and natural science		
Core Requirements – Flight Operations (53 credits)		
^ Avia 300	Certified Flight Instructor Ground School	5
^ Avia 316	Advanced Instrument Ground School	3
^ Avia 320	Turbine and Advanced Technologies Ground School	3
*^Avia 324	Turbine Operations Flight	2
*^Avia 326	Advanced Cockpit Technologies Flight	2
^ Avia 330	Certified Flight Instructor-Multi-Engine	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-Flight 1	2
*^Flt 312	Certified Flight Instructor-Flight 2	1
*^Flt 321	Multi-Engine Operations Flight	1
*^Flt 331	Multi-Engine Instructor Rating	2
*^Flt 338	Instrument Instructor Rating	1
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 Career Development	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 and the Global Economy	5
Avia 490	Capstone: Aviation Research Projects	3
Additional Credits 67-77		
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

Airline Dispatch
Associate in Applied Science Degree
95 Credits

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Dept./No.	Course Title	Credits
Avia 103	Aviation History and Careers	5
Avia 110	Airline Operation	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 211	Aerodynamics for Pilots	5
Avia 212	Human Factors and Safety	5
Avia 216	Basic Instrument Pilot Ground School	5
Avia 221	FAA Written Test Preparation for ATP/Dispatch	2
Avia 265	Airline Dispatch	10
Avia 267	International Flight Planning and ETOPS	5
# Avia 270 or	Air Traffic Control Fundamentals or	
Avia 281 or	Air Traffic Control 1 or	
Avia 282	Air Traffic Control 2	5
# Cmst&210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
# Engl& 101 or	English Composition I or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/ Business	5
# Math	Any Math course 100-level 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 95 credits:

<u>Aviation Electives</u>		
A Sim 111	Private Pilot Flight Simulations	1
Avia 101	Aviation Fundamentals	5
Avia 109	Introduction to Unmanned Aerial Systems	5
Avia 129	Unmanned Aerial Vehicle Basics	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 190	FAA Next Generation Technologies	5
Avia 194	Aviation Special Topics	1-10
Avia 210	Aviation and the Law	5
Avia 217	Aviation Security	5

<u>Non-Aviation Electives</u>		
Any computer 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



* Students enrolled in the Airline Dispatch program must complete AVIA 123 at Green River, and cannot be taken online.

Satisfies related instruction requirements.

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.

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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	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
# Engl& 101 or	English Composition I or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/ Business	5
# Math 106 or	Essentials of PreCalculus Mathematics or	
Math& 107 or	Math in Society or	
Math& 108 or	Contemporary Math in Information Technology or	
Math& 141 or higher	Precalculus I 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

A Sim 111	Private Pilot Flight Simulations	1
Avia 101	Aviation Fundamentals	5
Avia 109	Introduction to Unmanned Aerial Systems	5
Avia 129	Unmanned Aerial Vehicle Basics	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 194	Aviation Special Topics	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 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, and airport maintenance and airport management careers.

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

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Dept./No.	Course Title	Credits
Acct 110 or	Practical Financial Accounting 1 or	
Acct& 201	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	5
Avia 217	Aviation Security	5
Avia 265	Aircraft Flight Dispatch	10
Avia 267	International Flight Planning	5
# Avia 270 or	Air Traffic Control Fundamentals or	
Avia 281 or	Air Traffic Control 1 or	
Avia 282	Air Traffic Control 2	5
Bus 121 or	Marketing Fundamentals or	
Bus 164	Entrepreneurship and Small Business Management	5
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst 230	Small Group Communication	
Econ 100 or	Economic Principles and Applications or	
Econ& 201 or	Microeconomics or	
Econ& 202	Macroeconomics	5
# Engl& 101 or	English Composition I or	
Engl 126 or	Writing: Humanities or	



Engl 127 or	Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/ Business	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 higher	PreCalculus I or higher	5
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 115 credits:

Aviation Electives

A Sim 111	Private Pilot Flight Simulations	1
Avia 101	Aviation Fundamentals	5
Avia 109	Introduction to Unmanned Aerial Systems	5
Avia 128	Aviation Weather Observer	3
Avia 129	Unmanned Aerial Vehicle Basics	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 194	Aviation Special Topics	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	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.

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.

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<u>Dept./No.</u>	<u>Course Title</u>	<u>Credits</u>
Acct 110 or	Practical Financial Accounting 1 or	
Acct& 201	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 or	
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 higher	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

A Sim 111	Private Pilot Flight Simulations	1
Avia 101	Aviation Fundamentals	5
Avia 109	Introduction to Unmanned Aerial Systems	5
Avia 129	Unmanned Aerial Vehicle Basics	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 194	Aviation Special Topics	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 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.

**Commercial Pilot
Fixed Wing Pilot Option
Associate in Applied Science Degree**
110 Credits

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. 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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Dept./No.	Course Title	Credits
A Sim 111	Private Pilot Flight Simulations	1
A Sim 216	Basic Instrument Flight Simulations	2
A Sim 218	Commercial Pilot Flight Simulations	1
Avia 103	Aviation History and Careers	5
Avia 111	Private Pilot Ground School	5
Avia 110	Airline Operation	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	Air Traffic Control Fundamentals or	
Avia 281 or	Air Traffic Control 1 or	
Avia 282	Air Traffic Control 2	5
# Cmst& 210 or	Interpersonal Communications or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
# Engl& 101 or	English Composition I or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/ Business	5
Flt 111	Private Pilot Flight 1	
Flt 112	Private Pilot Flight 2	
Flt 113	Private Pilot Flight 3	
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
# Math 106 or	Essentials of Precalculus I or	
Math& 107 or	Math in Society or	
Math 108 or	Contemporary Math for Information Technology or	
Math& 141 or higher	Precalculus I or higher	5
Natural Science	Any 100-level Science course or higher with a lab	

Students choose 6 credits from the following list of classes to total credits of 110.

Aviation Electives

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

Non-Aviation Electives

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

Satisfies related instruction requirements.

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**Commercial Pilot
Helicopter Pilot Option**
Associate in Applied Science Degree
109 Credits

Students should have received their helicopter private pilot's license before they begin the Green RiverCollege Commercial Helicopter Pilot Degree program. Students must have received the private pilot's license before they will be allowed to take any flight classes in the degree program. The degree prepares students for entry level jobs as commercial helicopter pilots. 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. 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 maybe 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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Dept./No.	Course Title	Credits
A Sim 216	Basic Instrument Flight Simulations	2
A Sim 218	Commercial Pilot Flight Simulations	1
Avia 103	Aviation History and Careers	5
Avia 110	Airline Operation	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	Air Traffic Control Fundamentals or	
Avia 281 or	Air Traffic Control 1 or	
Avia 282	Air Traffic Control 2	5
# Cmst& 210 or	Interpersonal Communications or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
# Engl& 101 or	English Composition I or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/ Business	5
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	2
Flt 291	Instrument Instructor Pilot Helicopter Flight	1
Flt 292	Instrument Instructor Pilot Helicopter Flight	2
# Math 106 or	Essentials of Precalculus I or	
Math& 107 or	Math in Society or	
Math 108 or	Contemporary Math for Information Technology or	
Math& 141 or higher	Precalculus I or higher	5
Natural Science	Any 100-level Science course or higher with a lab	5

Students must choose 9 credits from the following list of classes to total 109 credits:

<u>Aviation Electives</u>		
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
<u>Non-Aviation Electives</u>		
Any computer class 100 level or higher		5
Any Business class 100 level or higher		5
Any Humanities class 100 level or higher		5
Any Science class 100 level or higher		5
Any Social Science class 100 level or higher		5
Coop 171, Work Experience Seminar		1

Satisfies related instruction requirements.



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

The Professional Pilot Degree program prepares students for entry level jobs as commercial pilots in the aviation industry. Students must have received their private pilot's license before they begin the Green River College Professional Pilot Degree program and prior to taking any flight 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. Students must possess a valid 2nd class medical (1st class preferred for students pursuing an ATP certificate) certificate before beginning the degree. 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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Dept./No.	Course Title	Credits
Avia 103	Aviation History and Careers	5
Avia 131	Aviation Ground School	5
Avia 110	Airline Operation	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 267	International Flight Planning and ETOPS	5
#Avia 270 or	Air Traffic Control Fundamentals or	
Avia 281 or	Air Traffic Control 1 or	
Avia 282	Air Traffic Control 2	5
#Cmst& 210 or	Interpersonal Communications or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
#Engl& 101 or	English Composition I or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/ Business	5
#Math	Any 100-level Math or higher	5
Natural Science	Any 100-level Science course or higher with a lab	5

Students choose 10 credits from the following list for the Fixed Wing Pilot Option:

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

Students must choose 10 credits from the following list of classes to total credits of 110.

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
Avia 266	Professional Pilot Instructor Flight 1	2
Avia 258	Professional Pilot Instructor Flight 2	2
Avia 261	Professional Pilot Instrument Instructor	2
Avia 262	Professional Pilot Multi Engine Instructor	2
Avia 269	Professional Pilot Multi Engine Flight	2

Non-Aviation Electives

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

Satisfies related instruction requirements.

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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 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.

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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 or	Air Traffic Control Fundamentals or	
Avia 281	Air Traffic Control 1	5
Avia 282	Air Traffic Control 2	5
# Cmst& 210 or	Interpersonal Communications or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	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
Humanities	Any Humanities course 100 level or higher	5
# Math 106 or	Essentials of Pre-Calculus Math or	
Math& 107 or	Math in Society or	
Math 108 or	Contemporary Math for Information Technology or	
Math& 141 or higher	Precalculus I or higher	5
Natural Science	Any Science course 100 level or higher with a lab	5

Students must choose 15 credits from the following list of courses below to total 90 credits:

A Sim111	Private Pilot Flight Simulations	1
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 194	Aviation Special Topic	1-10
Avia 210	Aviation and the Law	5
Avia 216	Basic Instrument Pilot Ground School	5
Avia 218	Commercial Pilot Ground School	5
Computer/IT	Any computer/IT course 100 level or higher	
* Engl 236	Creative Writing I	
Math	Any Math course 100 level or higher	1-5
* Math 148	Business Calculus	
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.

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.

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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 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	Internet and Basic Web Design	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
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	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	Introduction to Computer Literacy	5

° Btac 115	Professional Image Building	1
Btac 132	Business Communication Applications	5
Btac 147 or Btac 148 or Btac 149	Beginning Keyboarding-Alphabet Keys or Keyboarding-Mastering 10-Key and Symbols or Keyboarding-Speed and Accuracy-Skill Building	1
Btac 151 or Btac 152 or Btac 153 or Btac 154 or Btac 155	Word: Create, Edit and Format Documents or Word: Tables and Sharing Documents or Word: Mail Merge and Other Productivity Tools or Word: Create a Newsletter or Word: Creating Forms, Macros and Document Security	1
Btac 163	Advanced Excel	5
Btac 164 or Btac 165 or Btac 166 or Btac 167	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 175	Instructor Assistant	1-5
† Btac 177-179 and Coop 171	BTAC Work Experience 1-3 and Work Experience Seminar	2-10
Btac 187 or Btac 188 or Btac 189	PowerPoint: Preparing a Presentation or PowerPoint: Designs with Graphics and Multimedia or PowerPoint: Customize and Incorporate Web Features	1
Btac 191 or Btac 192 or Btac 193 or Btac 194	Excel: Introduction to Formulas and Functions or Excel: Charts and Working with Large Worksheets or Excel as a Database or Excel: Data Consolidation and What-If Analysis or Excel: Collaboration, the Web and Macros	1
Btac 195	Computer Support Internship 2	2-5
Btac 217	Basic Office PC Support	5
Btac 218	Basic Networking Concepts	5
Btac 219	Advanced Word	5
Btac 255	General Psychology	5
Psyc& 100	Introduction to Sociology	5
Soc& 101		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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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

Suggested Electives:

Students may select from the following list of courses below to total a minimum of 75-80 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
Art 109	Beginning Design	5
Btac 101	Beginning Keyboarding	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	Introduction to Computer Literacy	5
° Btac 115	Professional Image Building	1
Btac 132	Business Communication Applications	5
Btac 163	Advanced Excel	5
Btac 147 or Btac 148 or Btac 149	Beginning Keyboarding-Alphabet Keys or Keyboarding-Mastering 10-Key and Symbols or Keyboarding-Speed and Accuracy-Skill Building	1
Btac 151 or Btac 152 or Btac 153 or	Word: Create, Edit and Format Documents or Word: Tables and Sharing Documents or Word: Mail Merge and Other Productivity Tools or	
Btac 154 or Btac 155	Word: Create a Newsletter or Word: Creating Forms, Macros and Document Security	1
Btac 164 or Btac 165 or	Access: Create and Modify a Database or Access: Use Queries to Produce Information or	
Btac 166 or Btac 167	Access: Create and Modify Forms or Access: Create and Modify Reports	1

Btac 175	Instructor Assistant	1-5
Btac 177-179 and Coop 171	BTAC Work Experience 1-3 and Work Experience Seminar	2-10 1
Btac 187 or Btac 188 or	PowerPoint: Preparing a Presentation or PowerPoint: Designs with Graphics and Multimedia or	
Btac 189	PowerPoint: Customize and Incorporate Web Features	1
Btac 191 or	Excel: Introduction to Formulas and Functions or	
Btac 192 or	Excel: Charts and Working with Large Worksheets or	
Btac 193 or Btac 194 or	Excel as a Database or Excel: Data Consolidation and What-If Analysis or	
Btac 195	Excel: Collaboration, the Web and Macros	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 Bus 164	Introduction to Business or 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

**Business Applications for Small Business
Certificate of Proficiency**
40 Credits

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

Contacts: Lea Ann Simpson, ext. 4393 Julie Slettvet, ext. 4687

Shannon Sharpe, ext. 4378
ssharpe@greenriver.edu

Dept./No.	Course Title	Credits
Required Classes		
Acct 110	Practical Financial Accounting 1	5
Bus 164	Entrepreneurship and Small Business Management	5
† Btac 101	Beginning Keyboarding	0-5
Btac 130	Business Correspondence	5
Btac 132	Business Communication Applications	5
Btac 162 or Btac 163	Introduction to Excel or Advanced Excel	5
Btac 214	Introduction to Information Security	5
Btac 266	Inside Microsoft Office	5



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

Acct 111	Practical Financial Accounting 2	5
Acct 112	QuickBooks for Accounting	5
Btac 110	Business Math Applications	5
Btac 112 or	Beginning Word or	
Btac 255	Advanced Word	5
Btac 140	Records Management	5
Btac 150	Introduction to Windows	5
Btac 163	Advanced Excel	5
Btac 184	Internet and Basic Web Design	5
Btac 185	Introduction to Microsoft Access	5
Btac 216	Computer Support Internship 1	5

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

**Distance Education Preparation
Certificate of Proficiency
15 Credits**

Note: This certificate does not qualify for federal financial or veteran's funding.

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Dept./No.	Course Title	Credits
Btac 100	Fundamentals of Computers	5
Btac 118	Basics for Online Education	5
Btac 184	Internet and Basic Web Design	5

**Carpentry Technology
Residential and Light Commercial
Associate in Applied Science Degree
90-110 Credits**

This degree program prepares individuals to become successfully employed in the field of construction. Students can also apply these skills to a variety of jobs within the residential construction field. Students can choose to earn a variety of certificates related to residential carpentry, or can earn an AAS in Residential and Light Commercial Carpentry. After completion of the certificates or the degree, students can readily find employment as a carpenter helper for either general or specialty contractors. Generally after a period of time, most students find themselves in jobs such as: lead carpenters, general contractors, specialty contractors, supervisors, vendor representatives, designers, retail sales specialists, building inspectors, or in other construction-related employment such as construction management positions.

Students whose primary language is not English must have successfully completed ESOL Level 3 prior to enrolling in the Carpentry Technology Program.

Contacts: Glen Martin, ext. 4208 Paul Mueller, ext. 2635
gmartin@greenriver.edu pmueller@greenriver.edu

Dept./No.	Course Title	Credits
Carp 113*	Foundations and Floor Framing	13
Carp 114*	Wall and Roof Framing	13
Carp 115*	Interior and Exterior Finish	13
Carp 161	Print Reading 3	
Carp 162	Stair Design and Construction	4
Carp 163	Rafter Design and Construction	4
Carp 165	Residential Remodeling Practices	4
Carp 167	Material Estimating 3	
Carp 168	Green Construction Principles and Practices	4
Indus 101	Basic Woodworking 4	

Related Instruction Requirements:

* Human Relations	11 Hours of Human Relations embedded in this class. 33 hours total required for the degree	
# Oral Communication	5 credits of Oral Communications listed in the Related Instruction Requirements	5
# Written	5 credits of Written Communications listed in the Communication Related Instruction Requirements	5
# Computation	Acomp 101, Computation for the Trades or Completion of Math 062 or Eligible for Math 070	0-5

Suggested Electives: *Students must complete a minimum of 15-30 credits from the following classes:*

Carp 164	Intermediate Woodworking and Cabinetry	4
Carp 171	Advanced Cabinetry and Wood Fabrication	4
D T 100	CAD Fundamentals	7
D T 131	Drafting Across the Industries	7
D T 142	BIM Fundamentals using REVIT	5
Indus 111	Welding Survey	3'

Bold face course offered days only. Regular font courses offered nights only

Satisfies related instruction requirements.

NOTE: *Most related instruction courses have prerequisites. Please work with Carpentry advisor for selecting which courses will meet program requirements and scheduling constraints.*

**Carpentry Technology
Residential and Light Commercial
Certificate of Proficiency
42 Credits**

This certificate program prepares students with carpentry skills and knowledge related to the entire spectrum of residential, as well as parts of light commercial construction. Completion can lead to employment with either general or specialty contractors whose focus is on residential or light commercial building. Students develop a wide range of skills and knowledge in the carpentry trade ranging from foundations to interior trim.

Contacts: Glen Martin, ext. 4208 Paul Mueller, ext. 2635
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Dept./No.	Course Title	Credits
Carp 113	Foundations and Floor Framing	13
Carp 114	Wall and Roof Framing	13
Carp 115	Exterior and Interior Finish	13
Carp 162 or Carp 163	Stair Design and Construction or Rafters Design and Framing Level 1	3

**Carpentry Technology
Concrete Forming and Placement
Certificate of Proficiency**
17 Credits

This certificate prepares students to find employment with residential specialty and/or general contractor whose primary focus is foundations and/or concrete flatwork (driveways, sidewalks, etc.). The core skills acquired are location and forming concrete foundations for houses and or decks, constructing them level, plumb square and to code or engineered specifications. In addition students will develop skills with specialty tools and material related to foundation and/or flatwork, as well as how to calculate, order and place concrete.

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Dept./No.	Course Title	Credits
Carp 113	Foundations and Floor Framing	13
Carp 166	Deck Construction and Concrete Flatwork	4

**Carpentry Technology
Exterior Finish Level 1
Certificate of Proficiency**
10 Credits

This certificate programs offers students the basic skills and knowledge required to find employment with specialty or general contractors whose focus is exterior finish. Students develop skills in applying various types of roof covering and materials, various types of siding and related trim pieces, and basic deck construction. In addition, students learn portable power tool usage designed specialty for exterior trim, as well as exterior material knowledge and specifications.

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Dept./No.	Course Title	Credits
Carp 115	Exterior and Interior Finish	6
Carp 166	Deck Construction and Concrete Flatwork	4

**Carpentry Technology
Framing Level 1
Certificate of Proficiency**
13 Credits

This certificate prepares students with the basic skills and knowledge required to find employment with specialty or general contractors whose focus is residential and/or light commercial framing (i.e., floors, walls, truss

roofs, light metal framing, etc.). Students develop basic skills in blueprint reading, layout skills, assembly and erecting of floors, walls and truss roof systems, WISHA/OSHA safety regulations and code requirements relating to framing. In addition, students learn portable power tool usage designed specifically to framing structures framing material knowledge and specifications.

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Dept./No.	Course Title	Credits
* Carp 114	Wall and Roof Framing	13

* Must complete sections I and II in student manual.

**Carpentry Technology
Framing Level 2
Certificate of Proficiency**
21 Credits

This certificate program prepares students additional skills and knowledge required for advancement with specialty contractors/builders, in particular how to design, layout and install basic stairs and roofs.

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Dept./No.	Course Title	Credits
Carp 114	Wall and Floor Framing	13
Carp 162	Stair Design and Construction	4
Carp 163	Rafters Design and Framing Level 1	4

* Must complete sections I and II in student manual.

**Carpentry Technology-
Interior Finish Level 1
Certificate of Proficiency**
11 Credits

This certificate prepares students to find employment with residential specialty and/or general contractor whose primary focus is interior finishing. Students will have developed skills in drywall installation and finishing, installing interior doors, trim and cabinetry. Additionally students will have proficient skills in portable and stationary woodworking tools, material knowledge and specifications.

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Dept./No.	Course Title	Credits
Carp 115	Exterior and Interior Finish	7
Carp 164	Intermediate Woodworking and Cabinetry	4

**Carpentry Technology-
Interior Finish Level 2
Certificate of Proficiency**

25 Credits

This certificate offers students the additional skills and knowledge that can lead to advancement when working for specialty or general contractors whose focus is interior finishing. Students will have proficient skills in installing high end finished products such as wainscoting and mantels. Additional skills will include fabricating material to match existing or architectural renderings as well as designing, constructing and installing custom cabinetry and/or trim.

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Dept./No.	Course Title	Credits
Carp 115	Exterior and Interior Finish	7
Carp 164	Intermediate Woodworking and Cabinetry	4
Carp 165	Residential Remodeling Practices	4
Carp 171	Advanced Cabinetry and Wood Fabrication	6
Carp 172	Advanced Finish Carpentry	4

**Captioning - Computer Reporting Technologies
Sequence A**

Associate in Applied Arts Degree
173-208 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 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 are actual writing time in an approved professional environment. Fifteen hours of research and dictionary preparation is also required. Students must have 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 Sidney Weldele-Wallace, ext. 4705
 lrapozo@greenriver.edu 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, Elementary Algebra	0-5
Btac 109	Legal Terminology	3
Btac 125	Medical Terminology for Office Administration	5
# Btac 130 or	Business Correspondence or	
Engl& 101 or	English Composition or	
Engl 109	Writing for Trades and Professional/Technical Degrees	5
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst 217 or	Communication for Business and Professions or	
Cmst& 220	Public Speaking	5
Crpt 086	Machine Shorthand Theory 1	10
Crpt 089	Machine Shorthand Theory 2	10
Crpt 100	Machine Shorthand Theory 3	10
Crpt 101	Machine Shorthand 60 wpm	10
Crpt 102	Machine Shorthand 80 wpm	10-16
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
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 and Regulations of the 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
116-144 Credits

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Dept./No.	Course Title	Credits
# B A 145 or Btac110 or Math 072	Business Computation or Business Math Applications or Eligible for Math 072, Elementary Algebra	0-5
# Btac 130 or Engl& 101 or Engl 109	Business Correspondence or English Composition or Writing for Trades and Professional/ Technical Degrees	5
Btac 109	Legal Terminology	3
Btac 125	Medical Terminology for Office Administration	5
# Cmst 100 or Cmst 217 or Cmst& 220	Fundamentals of Oral Communication or Communication for Business and Professions or Public Speaking	5
Crpt 080	Machine Shorthand Lab	1
Crpt 081	Machine Shorthand Theory Beginning	3-4
Crpt 082	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 15	Court Reporting Procedures 1	5
Crpt 154	Court Reporting Procedures 2	5
Crpt 177-179 and Coop 171	Court Reporting/Captioning Work Experience 1-3 and 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

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 Btac 108 or	Typing Speed and Accuracy 1 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 Pols& 200	Business Law and the Regulation of Business or 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	

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 Science Degree
176-215 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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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 125	Medical Terminology for Office Administration	5
# Btac 130 or	Business Correspondence or	
Engl 109 or	Writing for Trades and Professional/ Technical Degrees or	
Engl& 101	English Composition	5
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst 217 or	Communication for Business and Professions or	
Cmst& 220	Public Speaking	5
Crpt 088	Machine Shorthand Theory 1	10
Crpt 089	Machine Shorthand Theory 2	10
Crpt 100	Machine Shorthand Theory 3	10
Crpt 101	Machine Shorthand 60 wpm	10
Crpt 102	Machine Shorthand 80 wpm	10-12
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 154	Court Reporting Procedures 2	5
Crpt 177-179 and	Court Reporting/Captioning Work Experience and	2-6
Coop 171	Work Experience Seminar	1
Crpt 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 1	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 and the Regulation of Business	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 112-140 Credits

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Dept./No.	Course Title	Credits
# B A 145 or	Business Computation or	
Btac 110 or	Business Math Applications or	
Math	Eligible for Math 072, Elementary Algebra	0-5
Btac 109	Legal Terminology	3
Btac 125	Medical Terminology for Office Administration	5
# Btac 130 or	Business Correspondence or	
Engl 109 or	Writing for Trades and Professional/ Technical Degrees or	
Engl& 101	English Composition	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
Crpt 081	Machine Shorthand Theory Beginning	3-4
Crpt 082	Machine Shorthand Theory Intermediate	3-4
Crpt 091	Machine Shorthand Theory Advanced	3-4
Crpt 092	Machine Shorthand 40 wpm	3-4
Crpt 093	Machine Shorthand 60 wpm	3-4
Crpt 094	Machine Shorthand 80 wpm	5-6
Crpt 095	Machine Shorthand 100 wpm	5-6
Crpt 096	Machine Shorthand 120 wpm	5-6
Crpt 097	Machine Shorthand 140 wpm	5-6
Crpt 098	Machine Shorthand 160 wpm	5-6
Crpt 099	Machine Shorthand 180 wpm	5-6
# Crpt 153	Court Reporting Procedures 1	5
# Crpt 154	Court Reporting Procedures 2	5
Crpt 177-179 and	Court Reporting/Captioning Work Experience and	2-6
Coop 171	Work Experience Seminar	1
Crpt 202	Machine Shorthand 200 wpm	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
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
Bus& 201	Business Law and the Regulation of Business	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.*

Note: *The minimum number of credits indicated with bold typeface is only applicable during summer quarter.*

**Medical Stenoscryptionist
Certificate of Proficiency**

43 Credits

This certificate program prepares students to work with medical professionals preparing medical records and reports using a stenograph machine. The high demand in the field of health care has made medical stenoscryptionist an important aspect of the medical profession. The qualified stenoscryptionist must understand disease processes, anatomy, physiology, and medical terminology, as well as medications and their dosages. An increasing number of medical stenoscryptionists work from home-based offices as subcontractors for hospitals and physicians. These medical language specialists work with prerecorded material rather than a live account from a medical professional. Those who specialize in the health care profession will be highly sought after in the next century.

Contacts: Lori Rapozo, ext. 4219 Sidney Weldele-Wallace, ext. 4705
lrapozo@greenriver.edu sweldele@greenriver.edu

Dept./No.	Course Title	Credits
Btac 123	Intermediate Medical Transcription	5
Btac 125	Medical Terminology for Office Administration	5
Btac 130 or Engl 109 or	Business Correspondence or Writing for Trades Professional/Technical Degree or	
Engl& 101	English Composition	5
Crpt 136	Machine Shorthand 160 wpm	8-16
Crpt 251	Introduction to Captioning/Alternative Careers	3
Crpt 255	Computer Aided Transcription-Advanced	3

Suggested Electives: *Students must choose from the following courses to total 43 credits.*

Acct 110	Practical Financial Accounting 1	5
B A 145 or	Business Computation or	

Btac 110	Business Math Applications or	5
Btac 112	Beginning Word	5
Btac 124	Advanced Medical Transcription	5
Btac 140	Records Management	5
Btac 145	Introduction to ICD Coding	5
Btac 184	Internet and Basic Web Design	5
Btac 255	Advanced Word	5
Btac 266	Inside Microsoft Office	5
Crpt 153	Court Reporting Procedures 1	5
Crpt 177 and	Court Reporting/Captioning Work Experience 1-3 and	
Coop 171	Work Experience Seminar	2
Engl 105	Grammar and Usage	5

Scopist/Text Editor

Certificate of Proficiency

44 Credits

Contacts: Lori Rapozo, ext. 4219 Sidney Weldele-Wallace, ext. 4705
lrapozo@greenriver.edu sweldele@greenriver.edu

Dept./No.	Course Title	Credits
Btac 109	Legal Terminology	3
Btac 125	Medical Terminology for Office Administration	5
Crpt 088 and Crpt 089 or	Machine Shorthand Theory1 and Machine Shorthand Theory 2 or	
Crpt 081 and Crpt 082 and	Machine Shorthand Theory Beginning and Machine Shorthand Theory Intermediate and	
Crpt 091	Machine Shorthand Theory Advanced	12-20
Crpt 109 or Crpt 092	Machine Shorthand Theory 3 or Machine Shorthand 40 wpm	4-10
Crpt 153	Court Reporting Procedures 1	5
Crpt 255	Computer-Aided Transcription-Advanced	3

Electives: *Students must choose from the following courses to total 44 credits.*

Acct 110	Practical Financial Accounting 1	5
B A 145 or Btac 110	Business Computation or Business Math Applications	5
Btac 112	Beginning Word	5
Btac 130 or Engl& 101 or Engl 109	Business Correspondence or English Composition or Writing for Trades Professional/ Technical Degrees	5
Btac 140	Records Management	5
Btac 184	Internet and Basic Web Design	5
Btac 255	Advanced Word	5
Btac 266	Inside Microsoft Office	5
Crpt 154	Court Reporting Procedures 2	5
Crpt 177 and	Court Reporting/Captioning Work Experience 1 and	1-2
Coop 171	Work Experience Seminar	1
Crpt 251	Introduction to Captioning/Alternative Careers	3

Criminal Justice
Associate in Applied Science Degree
 119-124 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.

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

Contact: Mary Jane Sherwood, ext. 4387
mjsherwood@greenriver.edu

Dept./No.	Course Title	Credits
Activity Credits	Select one course from the approved list of Activity courses listed on the AA-DTA degree	1-5
# Cmst& 210	Interpersonal Communication	5
# Cmst 230	Small Group Communication	5
# Engl& 101	English Composition	5
Engl 109 or	Writing for Trades and Professional/ Technical Degrees or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/ Business	5
# Math& 107	Math in Society or any college-level Math class	5
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	(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 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	(3)
P E 113	Group Dynamics Activities	1
Phil 240	Introduction to Ethics	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
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	5
CJ 205	Criminal Evidence	5
CJ 220	Multicultural Diversity in Criminal Justice	5
CJ 236	Community-Oriented Policing	5
Soc 215	Survey of Criminology	5

Suggestive Electives: Select 5 credits from the following courses to total 119-124 credits.

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

Terrific career opportunities are available to those seeking employment in federal, state and local correctional facilities. The Seattle area is home to the King County Detention facility SCORE, and other federal correctional facilities. Job potential with local correctional agencies exists for Green River students, though job placement is not guaranteed.

Contact: Mary Jane Sherwood, ext. 4387
mjsherwood@greenriver.edu

Dept./No.	Course Title	Credits
CJ& 101	Introduction to Criminal Justice	5
CJ& 105	Introduction to Corrections	5
CJ& 110 or	Criminal Law or	
CJ 205	Criminal Evidence	5
CJ 200	Individual Rights in Criminal Justice	5
CJ 220	Multicultural Diversity in Criminal Justice	5
CJ 236	Community Oriented Policing	5
Engl& 101	English Composition	5
Soc 215	Survey of Criminology	5

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

Btac 100	Fundamentals of Computers	5
CJ 177-179 and Coop 171	Criminal Justice Work Experience 1-3 and Work Experience Seminar	1-5 1

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

**Criminal Justice
Law Enforcement
Certificate of Proficiency**
40 Credits

This short-term certificate is designed to be completed in two or three quarters and includes an introduction to the criminal justice system and a more focused examination of current trends and practices in policing. Students who earn the certificate may find employment opportunities with local law enforcement agencies.

Contact: Mary Jane Sherwood, ext. 4387
mjsherwood@greenriver.edu

Dept./No.	Course Title	Credits
CJ& 101	Introduction to Criminal Justice	5
CJ& 105	Introduction to Corrections	5
CJ& 110	Criminal Law	5
CJ 200	Individual Rights in Criminal Justice	5
CJ 205	Criminal Evidence	5
CJ 220	Multicultural Diversity in Criminal Justice	5
CJ 236	Community-Oriented Policing	5
Engl& 101	English Composition	5

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

Btac 100	Fundamentals of Computers	5
Btac 140	Records Management	5
CJ 177-179 and Coop 171	Criminal Justice Work Experience 1-3 and Work Experience Seminar	1-5 1

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

Contact: Mary Jane Sherwood, ext. 4387
mjsherwood@greenriver.edu

Dept./No.	Course Title	Credits
Activity Credits	Select one course from the approved list of Activity courses 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	5
Engl 109 or Engl 126 or Engl 127 or Engl 128	Writing for Trades and Professional/ Technical Degrees or Writing: Humanities or Writing: Social Science or Research Writing: Science/Engineering/ Business	5
# Math& 107	Math in Society or any college-level Math course	
P E 101 or P E 102 or P E 103 or P E 111 or P E 149 or P E 131 or P E 160 or P E 165 or P E 169	Physical Fitness Lab or (2) Jogging or (2) Total Physical Fitness or (3) Aerobic Walking or (2) CORE Training for Health or (2) Weight Training or (2) Exercise and Nutrition or (3) Exercise and Health or (3) Fitness and Health	(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 Pols& 202	Introduction to Political Science or American Government	5
Psyc& 100	General Psychology	5
Psyc& 220	Abnormal Psychology	5

Required core classes: (35 credits)

CJ& 101	Introduction to Criminal Justice	5
CJ& 110	Criminal Law	5
CJ 120	Criminal Justice Professions	5
CJ 115	Fingerprint Science	5
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
Btac 140	Records Management	5
Btac 250	Office Relations and Procedures	5
CJ& 105	Introduction to Corrections	5
CJ 120	Criminal Justice Professions	5
CJ 177 and Coop 171	Criminal Justice Work Experience 1 and Work Experience Seminar	5 1
CJ 220	Multicultural Diversity in Criminal Justice	5
CJ 236	Community-Oriented Policing	5
CJ 294	Special Topics-Criminal Justice	5
CJ 299	Independent Study-Criminal Justice	5



Phil 115 or	Critical Thinking 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	

Satisfies related instruction requirements.

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

**Criminal Justice
Forensic and Fingerprint Technology
Certificate of Proficiency
40 Credits**

Green River College is one of the few institutions that offer training to become a Fingerprint Technician. This short-term certificate can be completed in two or three quarters and includes training in the new Automatic Fingerprint Identification System (AFIS), classification, evidence presentation, court testimony preparation and basic job skill preparation. Students who earn the certificate are introduced to the field of Criminalistics and Fingerprint Technology.

Contact: Mary Jane Sherwood, ext. 4387
mjsherwood@greenriver.edu

Dept./No.	Course Title	Credits
CJ& 101	Introduction to Criminal Justice	5
CJ& 110	Criminal Law	5
CJ 115	Fingerprint Science	5
CJ 200	Individual Rights in Criminal Justice	5
CJ 205	Criminal Evidence	5
CJ& 240	Introduction to Forensic Science	5
Engl& 101	English Composition	5
Photo 111	Beginning Digital Photography	5

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

Btac 100	Fundamentals of Computers	5
Btac 140	Records Management	5
CJ 177-179 and Coop 171	Criminal Justice Work Experience 1-3 and Work Experience Seminar	1-5 1

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

**Customer Service Representative
Certificate of Proficiency
45 Credits**

Contacts: Tim Broxholm, ext. 4377 Jeff Perlot, ext. 4865
tbroxholm@greenriver.edu jperlot@greenriver.edu

Dept./No.	Course Title	Credits
# B A 145 or	Business Computation or	
Btac 110	Business Math Applications	5
# Cmst& 210 or	Interpersonal Communications or	
Cmst& 220	Public Speaking	5
# Engl& 101 or	English Composition or	
Btac 130	Business Correspondence	5

Btac 100	Fundamentals of Computers	5
* Btac 101	Beginning Keyboarding	5
# Bus 166	Human Relations and Work Readiness	5
Bus 257	Customer Service Strategies	5
Bus 259	Customer Service Representative Practicum	5

Electives: Choose 5 credits from the following courses to total 45 credits.

Bus& 101	Introduction to Business	5
Bus 103	Business Leadership	5
Bus 159	Professional Selling	5
Bus 202	Introduction to Project Management	5
Bus 258	Principles of Management and Supervision	5
Cmst 217	Communication for Business and Professions	5
Cmst& 230	Small Group Communication	5

* Keyboarding skills may be demonstrated by passing a typing test at 40 wpm administered by the Business Technologies and Administrative Careers.

Satisfies related instruction requirements.

**Design Drafting Technology
Associate in Applied Science Degree
90-91 Credits**

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

Contacts: Terry Waagan, ext. 4342 Adam Waters, ext. 4321
twaaagan@greenriver.edu awaters@greenriver.edu

Dept./No.	Course Title	Credits
Required Courses:		
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220	Public Speaking	5
D T 100	CAD Fundamentals	7
D T 101	Technical Drafting	7
D T 102	Descriptive Geometry	7
D T 105 or	Design Drafting Careers or	
Tech 100	Careers for the New Millennium	2
D T 113 or	SolidWorks or	
D T 142	BIM Fundamentals Using REVIT	5
# D T 131	CAD Across the Industries	7
D T 135	3D CAD Modeling	5
D T 200	Design Drafting Capstone	3
D T 232	Drafting and Design Project	7
# Engl 109 or	Writing for Trades and Professional/ Technical Degrees or	
Engl 128	Research Writing: Science/Engineering/ Business	5

Math 115 or Technical Math 1 or
Math& 142 or Precalculus II or
Math& 151 Calculus I 5

Three credits from the following courses: 3
Carp Any Carpentry shop/lab course (1-3)
Indus Any Industry shop/lab course (1-3)
Mfg Any Manufacturing shop/lab course (1-3)
Weld Any Welding shop/lab course (1-3)

Four credits from the following courses: 4-5
Carp 167 Material Estimating (4)
Engr& 104 Introduction to Design (5)
I E 189 Basic Metallurgy (4)
I E 204 Statics and Strengths (5)

Suggested Electives: Additionally, complete 18 credits from the following list: 18

Bus 164	Entrepreneurship and Small Business Management	(5)
D T 110	Introduction to AutoCAD	(4)
D T 113	SolidWorks	(5)
D T 115	Geometric Dimensioning and Tolerancing	(5)
D T 125	Civil Drafting 1	(5)
D T 128	International Residential Code	(3)
D T 129	International Building Code	(3)
D T 141	Architectural Drafting 1	(5)
D T 142	BIM Fundamentals Using REVIT	(5)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 210	Advanced AutoCAD Development 1	(4)
D T 225	Civil Drafting 2	(4)
D T 231	Mechanical Design (CADD)	(5)
D T 237	MasterCAM 3D CAD/CAM	(4)
D T 241	Architectural Drafting 2	(4)
Phys& 114	General Physics w/Lab	(5)

A maximum of five credits from the following courses: 5
Carp Any Carpentry shop/lab course (1-5)
Indus Any Industry shop/lab course (1-5)
Mfg Any Manufacturing shop/lab course (1-5)
Weld Any Welding shop/lab course (1-5)

A maximum of seven credits from the following courses: 7
Coop 171 Work Experience Seminar (1)
D T 175 Drafting Work Experience (4-7)
D T 177 or Drafting Work Experience 1 or (3)
D T 178 or Drafting Work Experience 2 or (3)
D T 179 Drafting Work Experience 3 (3)
D T 180 or Leadership Skills 1 or (1)
D T 181 or Leadership Skills 2 or (1)
D T 182 Leadership Skills 3 (1)
D T 199 or Independent Study-Drafting 1 or (1-5)
D T 299 Independent Study-Drafting 2 (1-5)
P E 113 Group Dynamic Activities (1)
Tech 100 Careers for the New Millennium (2)

Satisfies related instruction requirements.

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



Architectural Design Technology

Certificate of Proficiency

3 33 Credits

This certificate program allows students to present an emphasis in the architectural/construction industry demonstrating diverse knowledge in a changing field. Throughout the program, industry-accepted drafting and design standards will be taught and reinforced. Students use sketches, notes, technical literature, and personal research to complete assignments. Students complete related credits in the areas of construction and engineering.

Contacts: Terry Waagan, ext. 4342 twaaagan@greenriver.edu Adam Waters, ext. 4321 awaters@greenriver.edu

Dept./No.	Course Title	Credits
Required Courses:		
D T 141	Architectural Drafting 1	
D T 128	Understanding Residential Codes	3
D T 129	Understanding Building Codes	3
D T 142	BIM Fundamentals using Revit	5
D T 145	Structural Drafting: Steel	4
D T 146	Structural Drafting: Concrete	4
D T 241	Architectural Drafting 2	4
Carp	Any Carpentry shop/lab course	5



Civil Design Technology

Certificate of Proficiency

33 Credits

This certificate program allows students to present an emphasis in the civil/construction industry demonstrating diverse knowledge in a changing field. Throughout the program, industry-accepted drafting and design standards will be taught and reinforced. Students use sketches, notes, technical literature, and personal research to complete assignments. Students complete related credits in the areas of construction and engineering.

Contacts: Terry Waagan, ext. 4342 twaaagan@greenriver.edu Adam Waters, ext. 4321 awaters@greenriver.edu

Dept./No.	Course Title	Credits
Required Courses		
D T 125	Civil Drafting 1	5
D T 128	Understanding Residential Codes	3
D T 129	Understanding Building Codes	3
D T 142	BIM Fundamentals using Revit	5
D T 145	Structural Drafting: Steel	4
D T 146	Structural Drafting: Concrete	4
D T 225	Civil Drafting 2	4
Carp	Any Carpentry shop/lab course	5



**Mechanical Design Technology
Certificate of Proficiency**

33 Credits

Mechanical designers and technicians assist engineers in industry and require a very broad technological background. Students develop proficiency in an array of manufacturing based computer programs. Throughout this course of study, students use sketches, notes, technical literature, and personal research to complete assignments. Students complete related credits in the areas of manufacturing and engineering.

Contacts: Terry Waagan, ext. 4342 Adam Waters, ext. 4321
twaaagan@greenriver.edu awaters@greenriver.edu

Dept./No.	Course Title	Credits
Required Courses:		
D T 113	Solidworks	5
D T 115	Geometric Dimensioning and Tolerancing	4
D T 231	Mechanical Design (CADD)	5
D T 237	MasterCAM 3D CAD/CAM	4
Engr&104	Introduction to Design	5
I E189	Basic Metallurgy	4
Indus	Any Industry shop/lab course	3
Mfg	Any Manufacturing shop/lab course	3

**Mechanical Design and Quality Assurance
Associate in Applied Science Degree**

120 Credits

Mechanical Designers and Inspection Technicians in industry require a very broad technological background. Students develop proficiency in board drawing and computer-aided drafting. Students prepare drawings for manufacturing and fabrication. The American National Standards Institute (ANSI) and the American Society of Mechanical Engineers (ASME) drafting and design standards will be taught and reinforced as students prepare drawings in both 2-D and 3-D using AutoCAD, KeyCreator, and Mastercam applications software. These skills will be combined with knowledge of Quality Assurance and Inspection. Throughout this course of study, students use sketches, notes, technical literature, and personal research to complete assignments. Added to this will be knowledge of various measuring tools and techniques to verify requirements set out in the drawings created. Students complete related credits in the areas of manufacturing and engineering.

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

Contact: Terry Waagan, ext. 4342
twaaagan@greenriver.edu

Dept./No.	Course Title	Credits
AAM 105	Quality Assurance 1	7
AAM 106	Quality Assurance 2	7
AAM 107 and	Inspection 1 and	(7)
D T 104 or	Machine Drafting 1 or	(3)
AAM 112 and	Inspection Measuring Basics and	(3)
D T 101	Technical Drafting	(7)
AAM 108 or	Inspection 2 or	(7)
AAM 114 and	Computerized Measuring for	

D T 115	Inspection and	(3)
	Geometric Dimensioning and Tolerancing	(4)
# Cmst 100 or	Fundamentals of Oral Communication or	7
Cmst& 210 or	Interpersonal Communication or	
Cmst &220	Public Speaking	5
D T 100 or	CAD Fundamentals or	(7)
D T 110	Introduction to AutoCAD	(4)
D T 102	Descriptive Geometry	7
D T 105 or	Design Drafting Careers or	
Tech 100	Careers for the New Millennium	2
D T 113	SolidWorks	5
# D T 131	Drafting Across the Industry	7
D T 135	3D CADModeling	5
D T 231	Mechanical Design (CADD)	5
D T 232	Drafting and Design Projects	7
D T 237	Mastercam 3D CAD/CAM	4
# Engl 109 or	Writing for Trades and Professional/	
	Technical Degrees or	
Engl 128	Research Writing: Science/Engineering/	
	Business	5
I E 189 or	Basic Metallurgy or	(4)
I E 204	Statics and Strengths	(5)
# Five credits from the following Math courses:		5
Math 116	Technical Math 2	5
Math 117	Technical Math 3	5
Math& 141	Precalculus I	5
Math& 142	Precalculus II	5
Math& 151	Calculus I	5
Math& 152	Calculus II	5

Suggested Electives: Select 24 from the following to total 120 credits.

Coop 171	Work Experience Seminar	(1)
D T 113	SolidWorks	(5)
D T 175	Drafting Work Experience	(4-6)
D T 177-179	Drafting Work Experience 1-3	(3 ea)
D T 180-182	Leadership Skills 1-3	(1 ea)
D T 199 or 299	Independent Study-Drafting 1 or 2	(1-5 ea)
D T 200	Drafting and Design Capstone	(3)
D T 210	Advanced AutoCAD Development 1	(4)
Engr 106	Introduction to Engineering Problems	(3)
Indus 111	Welding Survey 1	(3)
Mfg	Any Mfg class	(10)

Satisfies related instruction requirements.

**Early Childhood Education and Diversity Studies
Associate in Applied Science-Transfer (AAS-T)**

90-94 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

Contact: Diana Holz, ext. 4334
dholz@greenriver.edu

Dept./No.	Course Title	Credits
Basic Skills Requirements (15 credits)		
# 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 (5-6 credits)

Select 5-6 credits from the following list of lab science courses:

Biol& 100	Survey of Biology	
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 (20 credits)

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

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

and

Select an additional 15 credits from the following courses to satisfy the 20 credits of Diversity Studies requirements:

Ames 105	Social Inequity and Change in American Sports	5
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 250	U.S. Indigenous Literature	5
Engl& 256	World Literature III: 19 th -21 st 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	
# Educ 210	Assisting Practicum	3-6
Educ 240	Multicultural/Anti-Bias Issues in Education	5
Eced/Educ	Electives	5

Early Childhood Education
Associate in Applied Science Degree
 100-109 Credits

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

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

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

Dept./No.	Course Title	Credits
# B A 145	Business Computation or Any Acomp 101 or Math course 100 or higher	5
# Cmst& 220	Public Speaking	5
Eced& 105	Introduction to Early Childhood Education	5
Eced& 107	Health, Safety and Nutrition	5
Eced 112	Technology in Education	3
# Eced& 120	ECE Practicum 1: Nurturing Relationships	2
Eced& 160	Curriculum Development	5
Eced& 170	Environments-Young Child	3
Eced& 180	Language and Literacy Development	3
Eced& 190	Observation and Assessment	3
Eced 152	Multicultural Books	3
Eced 155	Exploring Science and Math P-3	5
Eced 165	Art for Children	3
Eced 175	Music and Movement Activities	3
Eced 250	Early Childhood Education Final Practicum	3
Educ& 115	Child Development	5
Educ& 130	Guiding Behavior	3
Educ& 150	Child, Family and Community	3
Educ& 204	Exceptional Child	5
Educ 240	Multicultural/Anti-Bias Issues in Education	3-5
# Engl& 101	English Composition I	5

Select eight to twelve (8-12) credits from the following practicum classes:

# Eced 124	Early Childhood Education Practicum 2	2
Eced 126	Child Development Associate Practicum 1	3
Eced 127	Child Development Associate Practicum 2	3
Eced 181	Montessori Practicum 1	4
Eced 182	Montessori Practicum 2	4
# Eced 214	Early Childhood Education Practicum 3	3
# Eced 215	Early Childhood Education Practicum 4	3
Eced 260	CDA Performance Documentation	5
Eced 265	Supervised Montessori Teaching	4
Educ 210	Assisting Practicum	3-6

Electives or Areas of Specialization

Any Eced or Educ class numbered 100 or higher.

Satisfies related instruction requirements.

Early Childhood Education
Child Development Associate (CDA)
Certificate of Proficiency
 20 Credits

Students who successfully complete this certificate with a minimum grade of 2.0 in each class are eligible to apply to take the CDA examination, which leads to a nationally recognized CDA credential. The Child Development Associate (CDA) National Credentialing Program focuses on the skills of early care and education professionals. It is designed to provide performance-based training, assessment, and credentialing of childcare staff, home visitors, and family child care providers.

Contacts: Candy Benteu, ext. 2729 Leslie Kessler, ext. 4555
cbenteu@greenriver.edu lkessler@greenriver.edu

Dept./No.	Course Title	Credits
Eced 125	Introduction to CDA	5
Eced 225	CDA Course Content	5
Eced 230	CDA Work Ethics	5
Eced 260	CDA Performance Documentation	5

Recommended Supplemental Courses:

Eced 126	CDA Practicum 1	3
Eced 127	CDA Practicum 2	3

State Early Childhood Education Certificate
(Statewide)
Certificate of Proficiency
 52 Credits

The Early Childhood Education (ECE) State Credential is the benchmark for Level 2 Core Competencies for Early Care and Education Professionals. The 52-credit “stackable certificate” requires Math, English, and Oral Communications as a foundation of the next step – an ECE Associates in Applied Arts Degree. Students who achieve this benchmark are on Step 7 of the Washington State Career Lattice.

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

Dept./No.	Course Title	Credits
# B A 145 or Math	Business Computation or Any Math class 100 or higher	5
# Cmst& 220	Public Speaking	5
Eced& 105	Introduction to Early Childhood Education	5
Eced& 107	Health, Safety and Nutrition	5
# Eced& 120	ECE Practicum 1: Nurturing Relationships	2
Educ& 150	Child, Family, Community Relationships	3
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& 130	Guiding Behavior	3
# Engl& 101	English Composition	5

Satisfies related instruction requirements.



**Information Technology:
Network Administration and Security
Bachelor of Applied Science Degree (BAS)**
180 Credits

Overview

The BAS degree in Information Technology 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. Successful graduates of the BAS degree in Information Technology program will be able to:

1. 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.
2. Analyze the security vulnerabilities of an organization's information technology resources.
3. Plan and implement security measures and practices for an organization's information technology resources.
4. Evaluate user needs, and use those needs to plan the implementation of information technology systems that meet those needs.
5. Prepare for industry certification exams.

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.

Entry Requirements:

To enter this program, students must have an associate's degree from a regionally accredited institution.

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 Programming Fundamentals
- 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

Graduation Requirements:

Students must attain a cumulative GPA of at least 2.5.

For more information about this degree please contact the Green River IT faculty at itdegrees@greenriver.edu

Dept./No.	Course Title	Credits
Communication Skills (15 credits)		
Engl& 101	English Composition	5
Engl 128 or Engl 127 or Engl 126 Engl 335	Research Writing: Science/Engineering/ Business or Writing: Social Science or Writing: Humanities Advanced Technical Writing	5 5
Quantitative/Symbolic Reasoning Skills (5 credits)		
Math 108 or Math& 107 or higher	Contemporary Math for Information Technology or Math in Society	5
Humanities/Fine Arts/English (10 credits)		
Cmst 338 or Cmst 238 or Phil 412 or Phil 112 or	Diversity in the Workplace or Intercultural Communication or Any Humanities/Fine Arts/English course approved for the AA-DTA degree Professional Ethics or Ethics in the Workplace or Any Humanities/Fine Arts/English course approved for the AA-DTA degree	5 5
Social Sciences (10 credits)		
Bus& 101 or CJ& 240 or	Introduction to Business or Any Social Science course approved for the AA-DTA degree. Introduction to Forensic Science or Any Social Science course approved for the AA-DTA degree.	5 5
Natural Sciences (10 credits)		
	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)		
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 IT 335 IT 340 IT 344 IT 360 IT 385 IT 390 IT 410 IT 460 IT 490	Routing and Switching in the Enterprise Network Security Foundations and Policies Network Security and Firewalls Virtualization and Storage Introduction to Computer Forensics and Vulnerability Assessment Scripting for Windows and Linux Mobile Devices and Wireless Networking- Enterprise Designing and Supporting Computer Networks Threat Analysis Capstone: Networking and Security	5 5 5 5 5 5 5 5 5 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

**IT Advanced Network Administration and Security
Certificate of Proficiency**

40 Credits

The IT Advanced Network Administration and Security Technician certificate 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 certificate 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 2.5 or higher on all courses in this program.

Entry Requirements: To enter this program, students must have a technical associate's degree in an IT-related field from a regionally accredited institution, or two years IT work experience.

The following IT courses, or work experience in all of these areas, are strongly recommended before entering this program because they contain foundational knowledge upon which the upper-division IT courses is built:

- 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
- IT 210 Introduction to Routing and Switching
- IT 240 Windows Server Administration II

For more information about this degree please contact the Green River IT faculty at itdegrees@greenriver.edu

Dept./No.	Course Title	Credits
Core Requirements		
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 or IT 390	Scripting for Windows and Linux or Mobile Devices and Wireless Network-Enterprise	5
IT 410	Designing and Supporting Computer Networks	5
IT 460	Threat Analysis	5

**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 tester, 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 database design and software construction.
- Communicate with technical and non-technical project stakeholders, and within project teams.
- Apply Agile practices such as maintaining a product backlog, planning sprints, participating in sprint reviews and retrospectives.
- Perform software quality assurance activities throughout the entire software lifecycle.
- Write technical documentation to support software lifecycle activities.

Students typically begin their studies in this program at third-year (junior) standing, with credits earned during their first and second year applying towards the total 180 credits.

Entry Requirements:

To enter this program, students must have an associate degree or higher from a regionally accredited institution. Students must have a minimum cumulative GPA of 2.5 or a waiver from the Program Director for entry into the program. Students who have completed some college coursework but do not have an associate degree or higher are encouraged to meet with academic advisor in the Information Technology department to develop an educational plan to prepare for entry into the program.

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

- IT 201 Database Fundamentals
- IT 206 Front-End Web Development
- IT 207 Web Programming with JavaScript
- IT 219 Programming I or CS& 141 Computer Science I Java
- IT 220 Programming II or CS 145 Java 2-Data Structures

Graduation Requirements:

Students must attain a cumulative grade point average of 2.5.

For more information about this degree please visit www.greenriver.edu/software or contact an Information Technology program advisor at itdegrees@greenriver.edu.

Dept./No.	Course Title	Credits
Core Requirements (50 credits)		
IT 301	Systems Programming	5
IT 305	Web Development Frameworks	5
IT 328	Full Stack Web Development	5
IT 333	Data Structures and Algorithms	5
IT 355	Agile Development Methods	5
IT 372	Software, Maintenance, and Evolution	5
IT 405	Mobile Development Frameworks	5

IT 426	Collaborative Design	5
IT 485	Software Development Capstone 1	5
IT 486	Software Development Capstone 2	5
Communication Skills (15 credits)		
Engl& 101	English Composition	5
Engl 128 or	Research Writing: Science/Engineering/ Business or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Science or	
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
Engl 335	Advanced Technical Writing	5
Quantitative/Symbolic Reasoning Skills (5 credits)		
Five credits from the list of Quantitative Skills/ Symbolic Reasoning Courses approved for the AA-DTA degree (Math& 141 Precalculus I, Math 147 Finite Mathematics, or higher recommended)		
Humanities/Fine Arts/English (10 credits)		
Cmst 338 or	Diversity in the Workplace or	
Cmst 238	Intercultural Communication or	
Five credits from the list of Humanities/Fine Arts/English courses approved for the AA-DTA degree		
Five credits from the list of Humanities/Fine Arts/English courses approved for the AA-DTA degree		
Social Sciences (10 Credits)		
Ten credits from the list of Social Science courses approved for the AA-DTA degree		
Natural Sciences (10 credits)		
Lab Science course	Five credits of lab science from List A of the Natural Science courses approved for the AA-DTA degree	5
Five credits from List A or List B of the Natural Science courses approved for the AA-DTA degree		
General Education Electives (10 credits)		
Ten credits from the lists of Humanities/Fine Arts/English, Social Science, or Natural Science courses approved for the AA-DTA degree		
Technical Electives (20 credits)		
20 credits of any Computer Science (CS) courses, any Information Technology (IT) courses, or the following Mathematics courses: Math& 146 Introduction to Statistics, Math 210 Discrete Mathematics, or Math 256 Statistics for Business and Social Science		
Electives (50 credits)		
50 credits from any courses at the 100-level or higher		

**Information Technology
Web Application Development
Certificate of Proficiency**
40 Credits

The Web Application Development certificate program is for anyone who has earned an associate’s or bachelor’s degree and is interested in learning how to build modern websites and web applications. This certificate program is designed to prepare students for continued studies in the Bachelor of Applied Science in Software Development degree program and for employment as an entry-level web developer or computer programmer familiar with the best practices in industry.

Students must earn a cumulative grade point average of 2.5 or higher on courses completed for this certificate. All of the courses in this certificate program apply towards the Bachelor of Applied Science in Information Technology: Software Development degree.

Entry Requirements:

To enter this certificate program, students must have earned an associate’s degree or bachelor’s degree from a regionally accredited institution. The following coursework, or equivalent work experience, in all of these areas, are strongly recommended before entering this program as the courses in this program build on programming fundamentals.

IT 201	Database Fundamentals
IT 206	Front-End Web Development
IT 207	Web Programming with JavaScript
IT 219 or	Programming 1 or
CS& 141	Computer Science I – Java
IT 220 or	Programming 2 or
CS 145	Java 2 Data Structures

For more information about this degree please visit www.greenriver.edu/software or contact an Information Technology program advisor at itdegrees@greenriver.edu.

Dept./No.	Course Title	Credits
Core Requirements		
IT 301	Systems Programming	5
IT 305	Web Development Frameworks	5
IT 328	Full Stack Web Development	5
IT 333	Data Structures and Algorithms	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



**Information Technology
Software Development Foundations
Associate Pre-Professional Degree**
90 Credits

This degree program prepares students for entry into the Bachelor of Applied Science in Information Technology: Software Development degree program at Green River College. While not designed for transfer to other colleges and universities, this program of study is an option for students who have completed some college coursework, but have not previously earned an associate’s degree or higher and are seeking admissions into

Green River College’s BAS Information Technology: Software Development program.

Students develop academic skills in writing, mathematics, and communication, alongside technical skills in programming to prepare for upper-division coursework in Software Development.

Information Technology instructor advising is required for this degree.

Contact: itdegrees@greenriver.edu

Dept./No.	Course Title	Credits
Core Requirements (45 credits)		
IT 201	Database Fundamentals	5
IT 206	Front-End Web Development	5
IT 207 or IT 190	Web Programming with JavaScript or Linux Administration 1	5
IT 219 or CS& 141	Programming 1 or Computer Science I – Java	5
IT 220 or CS 145	Programming 2 or Java 2 – Data Structures	5
Engl& 101	English Composition I	5
Engl 128 or Engl 126 or Engl 127	Research Writing: Science/Engineering/ Business or Writing: Humanities or Writing: Social Science	5
Math& 141 or Math 147 or	Precalculus I or Finite Mathematics – Business and Social Science or	5
QSR course	Five credits from the list of Quantitative Skills/Symbolic Reasoning courses approved for the AA-DTA degree	5
Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communication or Public Speaking or Small Group Communication	5

Electives (45 credits)
Any college courses numbered 100 or higher may be used for elective credits. 45

**Information Technology
Systems and Security**

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: Network Administration and Security, or Information Technology: Software Development 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. In year 2, students complete four courses on key advanced networking topics (Option 1) or four courses in software development (Option 2). In addition to these specialized courses, students learn key interpersonal communication skills sought by employers.

Successful graduates of the program should be able to:

- Understand and demonstrate the functions of information technology services support.
- Understand and demonstrate procedures to install, configure, support, and troubleshoot Linux and Windows operating systems.
- Understand security principles, system and network vulnerabilities, and common mitigation practices.
- Understand and demonstrate basic programming and database constructs.
- Understand network infrastructure, logic, subnetting, and troubleshooting procedures.

Contact: itdegrees@greenriver.edu

Dept./No.	Course Title	Credits
General Education Requirements: 20 credits		
Cmst& 210 or Cmst& 220 or Cmst& 230 or Cmst 238	Interpersonal Communication or Public Speaking or Small Group Communication or Intercultural Communication	5
Engl& 101	English Composition I	5
Phil 111 or Bus& 101 or	Technology, Society, and Values or Introduction to Business or Any Natural Science List A or B from the AA-DTA or Any Social Science from the AA-DTA or Any Humanities class from the AA-DTA	5
Math 108 or	Math for Information Technology or Any math class Math& 107 or higher.	5

NOTE: Students who wish to continue on to the BAS IT: Network Administration and Security should complete Math 108 or Math 147. Students who wish to continue on to the BAS IT: Software Development should complete Math& 141 or Math 147, or higher.

Core Requirements: 40 - 47 credits		
IT 102	Programming Fundamentals	5
IT 114 or	CompTIA A+ Certification Preparation or CompTIA A+ Certification	0 or 7
IT 131	Networking Fundamentals	5
IT 135	CompTIA Security+ Certification Preparation	5
IT 141	Customer Service and Work Environment For IT Professionals	5
IT 160	Windows Server Administration I	5
IT 190	Linux Administration I	5
IT 201	Database Fundamentals	5
IT 240	Windows Server Administration II	5

Complete 20 credits from one of the two options below:

Option 1: Network Administration and Security: 20 credits		
IT 210	Introduction to Routing and Switching	5
IT 236	Advanced Security Practices	5
IT 243	Linux Administration II	5
IT 245	Windows Server Administration III	5

Option 2: Software Development: 20 credits		
IT 206	Front-End Web Development	5
IT 207	Web Programming with JavaScript	5
IT 219 or CS& 141	Programming I or Computer Science I - Java	5
IT 220 or CS 145	Programming II or Java 2	5

Electives: **3 or 10***
 IT 175 or Student Assistant or (0-3)
 IT 178 or Information Technology Work Experience or (0-3)
 Any course numbered 100 or higher may be used for elective credits. Three elective credits are required.

* Ten elective credits are only required if a CompTIA A+ certification is used in place of IT 114.

Information Technology Fundamentals

Certificate of Proficiency

15-17 Credits

The Information Technology Fundamentals certificate is designed to prepare students or career changers for continued studies in information technology by addressing a variety of fundamental technical concepts in server administration, networking, and one other aspect of technology: security, programming, databases, or maintenance. The coursework required for this certificate may also be helpful to individuals whose work requires them to understand technical concepts and terminology, but are not necessarily involved in the same day-to-day work as information technology professionals.

Students must earn a grade of 2.5 or higher on all courses in this program. All of the courses required for this certificate apply towards the Associate of Applied Science-T degree in Information Technology Systems.

Contact: For more information, please contact us at itdegrees@greenriver.edu or at (253)833.9111, ext. 4600.

Dept./No.	Course Title	Credits
Core Requirement (5 credits)		
IT 102	Programming Fundamentals	5
Complete any two of the following classes (10-12 credits)		
IT 114	CompTIA A+ Certification Preparation	7
IT 131	Networking Fundamentals	5
IT 135	CompTIA Security+ Certification Preparation	5
IT 160	Windows Server Administration I	5
IT 201	Database Fundamentals	5

Machining and Manufacturing Technology

Associate in Applied Science Degree

100-107 Credits

This degree program is designed for both the new student entering the field of manufacturing and for the current 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 manufacturing industry as a conventional or CNC (Computer Numerical Control) machinist trainee. Instruction covers conventional turning, milling and grinding, as well as basic programming, set up and operation of CNC machine tools. Other subjects include shop safety, reading engineering drawings, shop mathematics, machine tool theory, inspection and surface plate techniques, as well as lean manufacturing and other skills currently required by the manufacturing industry.

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: Tom Tagliente, ext 4261
ttagliente@greenriver.edu

Dept./No.	Course Title	Credits
# Acomp 101 or Math 072 or	Computations for the Trades or Elementary Algebra or Eligible for Math 097, Intermediate Algebra	0-5
**Bus 166 or	Human Relations and Work Readiness or	
* Cmst 100 or	Fundamentals of Oral Communication or	
* Cmst& 210 or	Interpersonal Communication or	
* Cmst 217 or	Communication for Business and Professions or	
* Cmst& 220 or Cmst 238	Public Speaking or Intercultural Communication	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
# Engl&101 or Engl 109	English Composition or Writing for Trades and Professional/ Technical Degrees	5
Indus 111	Welding Survey 1	3
Mfg 101 or AAM 101	Introduction to Machining and Manufacturing or Principles of Precision Machining 1	13
Mfg 102	Conventional Milling and Turning	13
Mfg 103 or AAM 102	Conventional and CNC Machining Level 1 or Principles of Precision Machining 2	13
Mfg 104	Conventional and CNC Machining Level 2	13
Mfg 105	Intermediate CNC Machining	13
Mfg 106 or Mfg 177	Special Machining Practices or Manufacturing Work Experience	13
Mfg 115	Reading Engineering Drawings	2
Mfg 162 or I E 189	Applied Materials for Manufacturing or Basic Metallurgy	2-4

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

Btac 111	Introduction to Computer Literacy	5
D T 115	Geometric Dimensioning and Tolerancing	4

Satisfies related instruction requirements.

* Students who are planning to take Cmst 100, Cmst& 210, Cmst& 220 or Cmst& 230 can only count it as meeting either **only** the Related Instructions Oral Communication OR **only** the Human Relations requirements.

Machining and Manufacturing Technology

Certificate of Proficiency

39-44 Credits

This is a one-year (three quarter) program designed for both the new student entering the field of manufacturing and for the current employee who wishes to learn more about the knowledge and skills currently in demand by employers.

Upon completion of this certificate, the students are prepared for entry into the manufacturing industry as a conventional or CNC (Computer

Numerical Control) machinist trainee. Instruction covers conventional turning, milling and grinding, as well as basic programming, set up and operation of CNC machine tools. Other subjects include shop safety, reading engineering drawings, shop mathematics, machine tool theory, inspection and surface plate techniques, as well as lean manufacturing and other skills currently required by the manufacturing industry.

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: Tom Tagliente, ext 4261
ttagliente@greenriver.edu

Dept./No.	Course Title	Credits
Acomp 101 or Math 072 or	Computation for the Trades or Elementary Algebra or Eligible of Math 097, Elementary Algebra	0-5
Mfg 101 or AAM 101	Introduction to Machining and Manufacturing or Principles of Precision Machining 1	13
Mfg 102	Conventional Milling and Turning	11
Mfg 103 or AAM 102	Conventional and CNC Machining Level 1 or Principles of Precision Machining 2	13
Mfg 115	Reading Engineering Drawings	2

Maintenance Mechatronics Associate in Applied Science Degree 97-104 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

Dept./No.	Course Title	Credits
# Acomp 101 or Math 072	Computations for the Trades or Elementary Algebra or Eligible for Math 097, Elementary Algebra	0-5
Btac 100	Fundamentals of Computers	5
Btac 111	Introduction to Computer Literacy	5

*#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 111	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 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 or Engl 126 or Engl 127 or Engl 128 (5 credits with a grade of 2.5 or better)

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

Contacts: Tim Broxholm, ext. 4377 Jeff Perlot, ext. 4865
tbroxholm@greenriver.edu jperlot@greenriver.edu

Dept. No.	Course Title	Credits
Core Requirements (55 credits)		
Bus 300	Introduction to Entrepreneurial Leadership	5
Bus 310	Market Research and Analytics	5
Bus 335	Integrated Marketing Communications	5
Bus 344	Entrepreneurial Finance	5
Bus 350	Product Development and Innovation	5
Bus 360	Sales and Negotiation	5
Bus 385	Operations Management for Competitive Advantage	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 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
Engl 335	Advanced Technical Writing	5

Quantitative/Symbolic Reasoning Skills (5 credits)		
Math& 141 or	Precalculus or	
Math 147	Finite Math-Business and Social Science	5

Humanities (10 credits)		
Cmst& 210 or	Interpersonal Communications or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communications	5
Phil 412	Professional Ethics	5

Social Sciences (10 credits)		
Bus& 101 or	Introduction to Business or	
Bus 181	Introduction to International Business	5
Social Science	Five credits from the list of Social Science courses approved for the AA-DTA degree	5

Natural Sciences (10 credits)		
Natural Science	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)

Acct& 201 or	Principles of Accounting or	
Acct 110	Practical Financial Accounting	5
Bus 365	Consumer Behavior	5
Bus 400	Personal and Professional Branding	5

Business Electives (15 credits)

Bus 121	Introduction to Marketing Principles	5
Bus 401 and	Special Topics 1-Marketing & Entrepreneurship	2
Bus 402 and	Special Topics 2-Marketing & Entrepreneurship	2
Bus 403 and	Special Topics 3-Marketing & Entrepreneurship	2
Bus 404 and	Special Topics 4-Marketing & Entrepreneurship	2
Bus 405	Special Topics 5-Marketing & Entrepreneurship	2

Additional credits from an Associate's Degree or equivalent credits in business-related field **50**

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.

Contacts: Lea Ann Simpson, ext. 4393 Julie Slettvet, ext. 4687
lsimpson@greenriver.edu slettvet@greenriver.edu

Shannon Sharpe, ext. 4378
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	Beginning Word or	
Btac 255	Advanced Word	
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	Introduction to Excel or	
Btac 163	Advanced Excel	5

Btac 245	Medical Office Procedures	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	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	BTAC Work Experience 1 and	3
Coop 171	Work Experience Seminar	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	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	1
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 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.



**Medical Office Manager
Certificate of Proficiency**
40 Credits

This certificate program is designed for students who have completed the Medical Office Administration Degree or who have previous medical office experience and will allow them to increase their ability to achieve the goal of medical office manager. Students in this program must complete each class with a grade of 2.0 or higher, and some prerequisites may be needed to enter the required classes. Students may enter this program at the beginning of any quarter.

Contacts: Lea Ann Simpson, ext. 4393 lsimpson@greenriver.edu
Julie Slettvet, ext. 4687 slettvet@greenriver.edu

Shannon Sharpe, ext. 4378 ssharpe@greenriver.edu

Dept./No.	Course Title	Credits
Acct 110	Practical Financial Accounting 1	5
Btac 130	Business Correspondence	5
Btac 245	Medical Office Procedures	5
Btac 266	Inside Microsoft Office	5
Bus 166	Human Relations and Work Readiness	5
Cmst& 210	Interpersonal Communication	5

To enhance the student's preparation for future employment, select 10 credits from the following electives: 10

AP 100 or	Survey of Human Anatomy and Physiology or	
AP 102	Bringing Anatomy and Physiology to Life	5
Btac 100	Fundamentals of Computers	5
Btac 110	Business Math Applications	5
Btac 112	Beginning Word	5
Btac 122	Introduction to Medical Transcription	5
Btac 140	Records Management	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 150	Introduction to Windows	5
Btac 162	Introduction to Excel	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
Engl 108	Medical Terminology	2



Natural Resources
Track 1: Sampling and Assessment
Track 2: Forestry Operations
Bachelors of Applied Science in Forest Resource Management
180 Credits

The Bachelors of Applied Science in Forest Resource Management degree prepares students to directly enter employment in several Natural Resources areas. By developing academic skills in mathematics, science, English, humanities, and natural resource courses, the student can apply directly for jobs in natural resources management, forest engineering, water quality or wildlife biology.

Entry Requirements: To enter this program, students must have completed a minimum of a two-year associate degree in forestry related field. Students must consult a Natural Resources instructor for advising for this degree.

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

Contacts: Monica Priebe, ext. 4509 Rob Sjogren, ext. 4582



Dept./No.	Course Title	Credits
Natural Resources core classes: (32 credits)		
Natrs 385	Forest Protection and Disease Management	5
Natrs 390	Environmental Decision Making and Conflict Resolution	5
Natrs 399	Natural Resources Seminar	1
Natrs 400	Forest Practices Law and Policy	5
Natrs 418	Resource Management GIS Applications 2	1
Natrs 471	Restoration Techniques	5
Natrs 493	Advanced Silviculture	5
Natrs 494	Capstone in Natural Resources	5

Specialty Track Courses 1: Sampling and Assessment (18 credits)

Natrs 300	Forest Ecology	6
Natrs 386	Bio-Invasions: Invasive Species Management	5
Natrs 417	Resource Management GIS Applications 1	1
Natrs 419	Resource Management GIS Applications 3	1
Natrs 461	Wildlife Ecology	5

-or-

Specialty Track Courses 2: Forestry Operations: (20 credits)

Natrs 301	Resource Economics	5
Natrs 401	Advanced Harvest Systems: Cable and Aerial Based	5
Natrs 402	Advanced Harvest Systems: Ground Based	5
Natrs 403	Transportation System Design	5

General Education Requirements: (60 credits)

Mathematics: (5 credits)

Math& 146	Introduction to Statistics	5
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English—required: (15 credits)

Engl& 101	English Composition	5
Engl 128	Research Writing: Science/Engineering/Business	5
Engl 335	Advanced Technical Writing	5

Science: (10 credits)

Biol& 110	Northwest Ecology	5
Geol& 208	Geology of the Pacific Northwest	5

Humanities—required: (15 credits)

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

Social Science: (10 credits)

Anth& 210 or Anth& 216	Indians of North America or Northwest Coast Indians	5
Social Science course	Any course that satisfies a social science requirement in the AA-DTA degree	5

Other: (5 credits)

Bus 202	Introduction to Project Management	5
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Additional required courses to total 180 credits:

Students must complete 70 credits for Track 1 Sampling and Assessments and 68 credits for Track 2 Forestry Operations from the following list of courses or equivalent forestry-related courses:

Natrs 100	Introduction to Natural Resources	5
Natrs 114	Chainsaw Operation and Maintenance	1
Natrs 161	Wildlife Habitat Management	4
Natrs 172	Computer Applications Overview	4
Natrs 182	Aerial Photo, GIS, and Forest Navigation	8
Natrs 184	Tree, Shrub and Wildflower Identification	8

Natrs 205	Wildland Recreation	4
Natrs 210	Introduction to Soils	5
Natrs 270	Stream and Wetland Ecology	5
Natrs 277-280	Natural Resources Internship 1-4	14
Natrs 284	Road and Trail Engineering	7
Natrs 290	Internship Seminar	1
Natrs 292	Resource Sampling and Appraisal of Forest Conditions	8
Natrs 293	Silvicultural Analysis and Forest Protection	4

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 Priebe, ext. 4509 Rob Sjogren, ext. 4582
mpriebe@greenriver.edu rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
A minimum of 98 credits must be earned from the following categories:		
Natrs 192	GIS for Natural Resources	5
Natrs 100	Introduction to Natural Resources	5
Natrs 180	Natural Resources Measurements	6
Natrs 182	Aerial Photo, GIS and Forest Navigation	8
Natrs 184	Tree, Shrub and Wildflower Identification	8
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)

Biol 110	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 (5 credits)

Econ& 201	Micro Economics	
Econ& 202	Macro Economics	
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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**Natural Resources—Forestry
Associate in Applied Science Degree**

110 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.

Contacts: Monica Priebe, ext. 4509 mpriebe@greenriver.edu Rob Sjogren, ext. 4582 rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
FIRST YEAR		
Summer Quarter		
# Cmst& 220	Public Speaking	5
# Engl& 101	English Composition	5
Fall Quarter		
Engl 128	Research Writing: Science/Engineering/ Business	5
Natrs 100	Introduction to Natural Resources	5
Natrs 114	Chainsaw Operation and Maintenance	1
Natrs 205	Wildland Recreation	4
	5	
Winter Quarter		
Natrs 172	Computer Applications Overview	4
# Natrs 180	Natural Resources Measurement	6
Natrs 270	Stream and Wetland Ecology	5
Spring Quarter		
Natrs 161	Wildlife Habitat Management	4
Natrs 182	Aerial Photo GIS, and Forest Navigation	8
Natrs 184	Tree, Shrub and Wildflower Identification	8
P E 113	Group Dynamics Activities (taken concurrently with Natrs 182)	1
Summer Quarter: Work Experience		
SECOND YEAR		
Fall Quarter		
Natrs 192	GIS for Natural Resources	5
Natrs 292	Resource Sampling and Appraisal of Forest Conditions	8
Winter Quarter		
Natrs 210	Introduction to Soils	5
Natrs 284	Road and Trail Engineering	7
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis and Forest Protection	4
Spring Quarter		
# Natrs 286	Natural Resources Business Principles	5
Capstone		
* Natrs 277, 278, 279 and 280	Natural Resources Internship 1-4	14

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

Avia 123	Aviation Weather	
Engr 106	Introduction to Engineering Problems	3
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 Option
Associate in Applied Science Degree**

91 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!

Contacts: Monica Priebe, ext. 4509 Rob Sjogren, ext. 4582
mpriebe@greenriver.edu rsjogren@greenriver.edu

Dept./No	Course Title	Credits
FIRST YEAR		
Fall Quarter		
Natrs 100	Introduction to Natural Resources	5
Natrs 184	Tree, Shrub and Wildflower Identification	8
Winter Quarter		
# Engl& 101	English Composition	5
GIS 260	Cartography-Based GIS	5
# Natrs 180	Natural Resources Measurements	6
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 (taken concurrently with Natrs 182)	1
SECOND YEAR		
Fall Quarter		
Natrs 192	GIS for Natural Resources	5
Natrs 292	Resource Sampling and Appraisal of Forest Conditions	8
Winter Quarter		
# Cmst& 220	Public Speaking	5
Natrs 290	Internship Seminar	1
Spring Quarter		
GIS 270	GIS in the Field 1	5
Summer Quarter		
Natrs 277-280	Natural Resources Internship 1-4	14

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

Any Natrs		(1-8)
Geog 120	Intro to Physical Geography	(5)
Natrs 114	Chainsaw Operation and Maintenance	(1)
St Sk 110	College Success Strategies	(5)

Satisfies related instruction requirements.

**Natural Resources—Park Management
Associate in Applied Science Degree**

115-117 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.

Contacts: Monica Priebe, ext. 4509 Rob Sjogren, ext. 4582
mpriebe@greenriver.edu rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
FIRST YEAR		
Summer Quarter		
# Cmst& 220	Public Speaking	5
# Engl& 101	English Composition	5
Fall Quarter		
Engl 128	Research Writing: Science/Engineering/ Business	5
Natrs 100	Introduction to Natural Resources	5
Natrs 114	Chainsaw Operation and Maintenance	1
Natrs 205	Wildland Recreation	
Winter Quarter		
Natrs 172	Computer Applications Overview	4
# Natrs 180	Natural Resources Measurement	6
Natrs 270	Stream and Wetlands Ecology	5
Spring Quarter		
Natrs 161	Wildlife Habitat Management	4
Natrs 182	Aerial Photo, GIS, and Forest Navigation	8
Natrs 184	Shrub and Wildflower Identification	8
P E 113	Group Dynamics Activity (taken concurrently with Natrs 182)	1
SECOND YEAR		
Fall Quarter		
Natrs 192	GIS for Natural Resources	5
Natrs 292	Resource Sampling and Appraisal of Forest Conditions	8
Winter Quarter		
Natrs 284	Road and Trail Engineering	7
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis and Forest Protection	4
Spring Quarter		
Geol& 101 and Soc& 101 or Natrs 123	Introduction to Physical Geology and Introduction to Sociology or Backcountry Watershed Assessment	10-12
# Natrs 286	Natural Resources Business Principles	5



Capstone

* Natrs 277-280 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
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 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 277-280 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

130-132 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 mpriebe@greenriver.edu Rob Sjogren, ext. 4582 rsjogren@greenriver.edu

Dept./No.	Course Title	
FIRST YEAR		
Summer Quarter		
# Cmst& 220	Public Speaking	5
# Engl& 101	English Composition	5
Fall Quarter		
Engl 128	Research Writing: Science/Engineering/Business	
Natrs 100	Introduction to Natural Resources	5
Natrs 114	Chainsaw Operation and Maintenance	1
Natrs 205	Wildland Recreation	4
Winter Quarter		
Natrs 172	Computer Applications Overview	4
# Natrs 180	Natural Resources Measurement	6
Natrs 270	Stream and Wetland Ecology	5

Spring Quarter

Natrs 161	Wildlife Habitat Management	4
Natrs 182	Aerial Photo, GIS, and Forest Navigation	8
Natrs 184	Shrub and Wildflower Identification	8
P E 113	Group Dynamics Activities	1
	(taken concurrently with NATRS 182)	

SECOND YEAR

Fall Quarter

Natrs 192	GIS for Natural Resources	5
Natrs 272	Fish Identification and Habitat	5
Natrs 292	Resource Sampling and Appraisal in Forest Conditions	8

Winter Quarter

Natrs 210	Introduction to Soils	5
Natrs 284	Road and Trail Engineering	7
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis and Forest Protection	4

Spring Quarter

Geol& 101 and Soc& 101 or Natrs 123	Introduction to Physical Geology and Introduction to Sociology or Backcountry Watershed Assessment	(5) (5) (12)
Natrs 271	Stream and Wetland Restoration	5
# Natrs 286	Natural Resources Business Principles	5

Capstone

* Natrs 277-280 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)
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 297-299	Independent Study-Natural Resources 4-6	(1-5)
St Sk 110	College Success Strategies	(5)

Satisfies related instruction requirements.

* Complete Natrs 277-280 in summer quarter.

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. **Credits**

Natural Resources – Wildland Fire Associate in Applied Science Degree

112 Credits

5

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!



Contacts: Monica Priebe, ext. 4509 Rob Sjogren, ext. 4582
 mpriebe@greenriver.edu rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
FIRST YEAR		
Summer Quarter		
# Engl& 101	English Composition	5
FIRST YEAR		
Fall Quarter		
Natrs 114	Chainsaw Operation and Maintenance	1
Engl 128	Research Writing: Science/Engineering/ Business	5
Natrs 100	Introduction to Natural Resources	5
Winter Quarter		
Natrs 172	Computer Applications Overview	4
# Natrs 180	Natural Resources Measurement	6
Natrs 270	Stream and Wetland Ecology	5
Spring Quarter		
Natrs 130	Wildland Firefighter Training I-100 and S-130/190	4
Natrs 134	Intermediate Wildland Fire Behavior	3
Natrs 161	Wildlife Habitat Management	4
Natrs 182	Aerial Photo GIS and Forest Navigation	8
P E 113	Group Dynamic Activities	1
Summer Quarter: Wildfire experience required		
SECOND YEAR		
Fall Quarter		
# Cmst& 220	Public Speaking	5
Natrs 192	GIS for Natural Resources	5
Natrs 292	Resource Sampling and Appraisal	8
Winter Quarter		
Natrs 131	Advanced Wildland Firefighter Training S-131	1
Natrs 132	Wildland Firefighter Crew Boss S-230	2
Natrs 133	Wildland Firefighter Engine Boss S-231	1
Natrs 284	Road and Trail Engineering	7
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis and Forest Protection	4
Spring Quarter		
Natrs 184	Shrub and Wildflower Identification	8
# Natrs 286	Natural Resources Business Principles	5
Capstone		
* Natrs 277-280	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)	
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 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)	

* Complete Natrs 277-280 in summer quarter.# 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.

Occupational Therapy Assistant Associate in Applied Science Degree

127 Credits

Occupational therapy is a health discipline that provides services to people whose lives have been disrupted by physical injury, illness, and developmental, psychosocial, or aging-related problems. "Occupational" in this sense does not necessarily refer to a person's employment. Instead, it means therapy that enables a person to gain the function necessary to perform day-to-day work, self-care and leisure activities as related to one's roles. Occupational therapy assistants are often part of a health team that not only includes an occupational therapist but may also include physicians, nurses, social workers, teachers, physical therapists and other specialists. Besides preparing to become occupational therapy assistants, students in this program learn many skills that will serve in other helping careers.

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Occupational therapy assistants are employed at public schools, long-term care centers, hospitals, rehabilitation centers and geriatric day centers to name a few. Assistants work under the supervision and consultation of an occupational therapist to provide patient treatments. They also provide assistance with patient assessments.

The Occupational Therapy Assistant program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20824-1220. AOTA's phone number is (301) 652-AOTA. Graduates of the program will be able to sit for the national certification examination for occupational therapy assistants administered by the National Board for Certification of Occupational Therapy (NBCOT) located at 12 S. Summit Avenue, Suite 100, Gaithersburg, MD 20877. NBCOT's phone number is (301) 990-7979. After successful completion of this examination, the graduate will be a Certified Occupational Therapy Assistant (COTA). Washington State requires licensure in order to practice.

Felony convictions may affect a graduate's ability to sit for the NBCOT certification examination and attain state licensure. NBCOT offers an Early Determination Review to individuals who (1) have been charged with or convicted of felony, (2) have had any professional license, registration or certification revoked, suspended or subject to probationary conditions by a regulatory authority or certification board, and/or (3) have been found by any court, administrative or disciplinary proceeding to have committed negligence, malpractice, recklessness or willful or intentional misconduct which resulted in harm to another.

An individual who is considering entering the Green River College Occupational Therapy Assistant program, or has already entered the program but is not yet eligible to apply for the certification examination, may have his/her character information reviewed prior to actually applying for the examination by requesting the review. The fee for the review is \$100; a payment form can be found on NBCOT's Website – www.nbcot.org – under "Forms".



New students are admitted twice a year (fall and spring). Level 2 fieldwork requirements must be completed within 18 months of academic courses. All Level I and Level II fieldwork experiences are completed during normal daytime business hours. Green River cannot guarantee placement at student geographical location and that up to a 90-minute drive (one way) for level 1 fieldwork and up to 60-minute drive (one way) for level II fieldwork is possible. Also, students may be placed outside the Puget Sound area.

Program Application

Applications are accepted in January for the spring start program and February for the fall program. Specific dates can be found on the program website. When the program fills, applicants will be placed on alternate list.

OTA program admission requirements and the application process are subject to change from year to year. If you are planning to apply for a later year, the packet will provide guidelines for the application process. The application packet is updated each fall for the following year and it is the applicant's responsibility to be aware of current application requirements.

1. Candidates may apply when they have earned a minimum of 20 quarter credits in program prerequisite courses with a minimum grade of 2.0 in each course and a cumulative GPA of at least 2.5 (grades on 4.0 scale).
2. Prerequisite courses for the OTA program are:
 - *a. AP 103 or Biol& 241 and AP 104 or Biol& 242
 - b. Engl& 101
 - c. H Sci 150 or Psyc& 200

* Sequencing of all Anatomy and Physiology courses must be taken at the same institution.
3. Submission of a one page statement describing applicant's interest and knowledge in the field.
4. A minimum of 20 hours of work, volunteer, or job shadow experience in occupational therapy. All job shadowing needs to be documented on job shadowing form and placed in a sealed envelope signed by an OT or COTA at the time of the application is required.

Selection Process:

Students who satisfy the above requirements will be selected based on academic preparation, GPA, and familiarity with occupational therapy including the essential functions of the occupational therapy assistant student. The procedures used in selection, evaluation, and retention do not discriminate and are consistent with the process of Green River College.

Does the program transfer to four-year schools?

The classes for the Occupational Therapy Assistant program are not designed to transfer. Students who seek occupational therapy degrees should pursue a Bachelor's degree and then attend an occupational therapy program.

Contacts: Lisa Finnsson, ext.4341 Career & Advising Center, ext. 2641
lfinnsonf@greenriver.edu Beadvised@greenriver.edu

Information Session Sign up: www.greenriver.edu/info-sessions

Dept./No.	Course Title	Credits
First Quarter		
H Sci 102	Applied Anatomy	5
O T 100	Introduction to Occupational Therapy	3
O T 110	Fundamentals of OT as Health Care Providers	4
Second Quarter		
H Sci 104	Fundamentals of Gerontology	3
O T 112	Developmental Disabilities	5
O T 114	Physical Disabilities 1	3
O T 124	Physical Disabilities 1 Lab	2
Third Quarter		
O T 105	Clinical Seminar 1	
O T 116	Physical Disabilities 2	3
O T 126	Physical Disabilities 2 Lab	2
O T 118	Psychosocial Dysfunction	4
O T 120	Professional Advocacy Experience	1
* O T 177	Application of Occupational Therapy Co-op Experience 1	1
Fourth Quarter		
* O T 178	Application of Occupational Therapy Co-op Experience 2	1
* O T 200	Therapeutic Activities 1	3
# O T 202	Ethics, Society and Professional Practice	3
O T 223	Therapeutic Practices in OT	3
O T 233	Therapeutic Practices Clinical Skills Training	2
O T 225	Clinical Seminar 2	
Fifth Quarter		
O T 230	Therapeutic Group Leadership	2
# O T 235	Therapeutic Activities 2	3
O T 240	Therapeutic Adaptations	5
O T 245	Pre-Fieldwork Experience Seminar	2
Sixth Quarter		
# O T 250	Fieldwork Experience Seminar 1	1
*#O T 277	Co-op Fieldwork Experience 1	11
Seventh Quarter		
# O T 251	Fieldwork Experience Seminar 2	1
*#O T 278	Co-op Fieldwork Experience 2	11
Required Supporting Courses:		
AP 103 and AP 104 or Biol& 241 and Biol& 242	Essentials of Human Anatomy-Phys 1 and Essentials of Human Anatomy-Phys 2 or Human Anatomy-Phys 1 and Human Anatomy-Phys 2	10
# Cmst& 220 or Cmst& 230	Public Speaking or Small Group Communication	5
# Engl& 101	English Composition	5
H Sci 150 or Psyc& 200	Human Life Span Growth and Development or Life Span Psychology	5
Math 070 or higher	Pre-Algebra	5
Psyc& 100	Introduction to Psychology	5
Select 5 credits from the following courses:		
Anth& 206	Cultural Anthropology	5
Anth& 235	Cross-Cultural Medicine	5
Cmst 238	Intercultural Communication	5
Geog& 200	Human Geography	5



Human 133	People, Language and Culture	5
Human 186	Peoples of the World	5
Soc& 101	Introduction to Sociology	5
Soc& 201	Social Problems	5
Soc 205	Sociology of Disability	5

Electives: *(Instructor's permission required.)*

O T 194	Special Topics-Occupational Therapy	1-2
O T 198	Independent Study-Occupational Therapy	1

Satisfies related instruction requirements.

* Clinical hours off campus during the day hours required.

Note: OTA students must earn a minimum grade of 2.0 in all required classes.

**Physical Therapist Assistant
Associate in Applied Science Degree**
110-112 Credits

This degree program awards an Associate in Applied Science degree and is accredited by the Commission on Accreditation in Physical Therapy education. Once students begin PTA classes, they typically complete the program in two years with 110-112 credits, depending on previous college work. PTA program courses must be taken in sequence and are only offered to students who are accepted into the PTA Program. The program admits a class of 32 each fall quarter. Admission is by application and applicants are evaluated based on academic preparation and familiarity with physical therapy.

PTA program students must earn a minimum of 2.0 in all required courses. After graduating from the program students are eligible to apply for licensure and sit for the PTA licensing examination, which is given nationally. Most states require licensure of PTAs, and may have requirements in addition to the licensure examination. Washington State requires PTA licensure.

The PTA, under the supervision of a licensed physical therapist, treats individuals with physical limitations to relieve pain and restore function. Physical therapist assistants work in hospitals, rehabilitation centers, school systems, private physical therapy practices, home health care agencies, and sports medicine facilities. Prospective students must complete the admissions prerequisites and apply for the Physical Therapist Assistant program.

Application Requirements:

Please refer to the PTA program website at www.instruction.greenriver.edu/PTA for the most current information about application requirements or register for an information session at www.greenriver.edu/infosessions.

The required prerequisites are as follows:

- **Human Anatomy and Physiology 1 & 2**
The prerequisite requires 10 quarter-credits (or equivalent) of human anatomy and physiology with a lab. The minimum courses meeting this requirement at GRC are AP 103 and 104. Biol& 241 (AP I) and Biol& 242 (AP II) also meet this prerequisite. These courses should be completed within 7 years prior to applying to the program and completed at the same institution. Please be

advised that AP 103 and AP 104 may not transfer as well to another institution.

- **Speech/Communication**
The courses meeting this requirement at GRC include: Cmst& 210, Cmst& 220, Cmst& 230 or Cmst 238. Equivalent communication/speech courses with less than 5 quarter credits should be verified with the pre-PTA program advisor.
- **English Composition**
This requirement may be completed by taking either English Composition (Engl& 101 or equivalent transferable course). Students who complete an equivalent course of less than 5 quarter credits will not meet this requirement and subsequently be ineligible for graduation. English 126, 127, and 128 at Green River (or their equivalent) will also meet this requirement. (5 composition credits required)
- **Math (choose 1 of 2 options)**
Option 1: Any college-level Math course (most math courses numbered 100 or above), **or**
Option 2: Complete one of the following: Btac 110, B A 145 or Acomp 101T and eligibility for Math 072 (Elementary Algebra) by COMPASS score or completion of Math 070 or higher with a grade of 2.5 or higher.

The required supporting course is as follows:

Human Development

This supporting course must be taken before completing the program. A student may fulfill this requirement with H Sci 150, Psyc& 200, or an equivalent course. Students are advised to complete this course before entering the program if possible. Please be advised that H Sci 150 may not transfer to another institution, and registration of Psyc& 200 may require successful completion of a General Psychology (Psyc& 100) course and eligibility for Engl& 101 beforehand.

Students who satisfy the above requirements will be selected based on academic preparation, COMPASS scores, GPA, and familiarity or experience with physical therapy or closely-related field requirements. Please access the website <http://www.instruction.greenriver.edu/PTA/> or consult the Pre-PTA Program Advisor for the most current information.

The PTA program complies with the "Child/Adult Abuse Information Act," RCW 43.43.830 through 43.43.840. Authorization for background check is required of each applicant. Some convictions may disqualify students from clinical placements and therefore program completion and licensure. Some clinics require additional background checks and drug testing. Individuals whose background checks identify a record of convictions will be required to meet with a faculty member to discuss the findings prior to admission into the program.

Contact: Donette Parry, ext. 4489
dparry@greenriver.edu

Information Session Sign up: www.greenriver.edu/info-sessions

Dept./No.	Course Title	Credits
FIRST YEAR		
Fall Quarter		
H Sci 102	Applied Anatomy	5
PTA 101	Introduction to Physical Therapy	3
PTA 105	Patient Care Skills	3

Winter Quarter

# PTA 102	Therapeutic Interaction in Health Care	2
PTA 110	Principles of Physical Therapy Agents 1	5
PTA 114	Tests and Measurements	2
PTA 130	Survey of Pathophysiology 1	3

Spring Quarter

H Sci 101	Neuroscience	3
PTA 111	Principles of Physical Therapy Agents 2	6
PTA 113	Posture and Movement	4
PTA 131	Survey of Pathophysiology 2	2
PTA 151	Clinical Preparation	1

SECOND YEAR

Fall Quarter

PTA 201	Issues in Health Care	3
PTA 205	Functional Training	2
PTA 210	Therapeutic Exercise	5
PTA 212	Acute Care	3
# PTA 251	Clinical Supervision 1	1
PTA 277	Clinical Affiliation 1	1

Winter Quarter

PTA 211	Advanced Rehabilitation Procedures	6
PTA 213	Orthopedic Therapy	5
# PTA 252	Clinical Supervision 2	1
PTA 278	Clinical Affiliation 2	1

Spring Quarter

# PTA 253	Clinical Supervision 3	1
PTA 279	Clinical Affiliation 3	7
PTA 280	Clinical Affiliation 4 7	

Required Supporting Course/Prerequisites:

# Acomp 101 or B A 145 or Btac 110 or Math	Computation for the Trades Math or Business Computations or Business Math Applications or Any college-level Math class numbered 100 or higher	3-5
* AP 103 and AP 104 or Biol& 241 and Biol& 242	Essentials of Human Anatomy-Physics 1 and Essentials of Human Anatomy-Physics 2 or Human Anatomy-Physics 1 and Human Anatomy-Physics 2	10
# Cmst& 210 or Cmst& 220 or Cmst& 230 or Cmst 238	Interpersonal Communication or Public Speaking or Small Group Communication or Intercultural Communication	5
# Engl& 101 or Engl 126 or Engl 127 or Engl 128	English Composition or Writing: Humanities or Writing: Social Sciences or Research Writing: Science/Engineering/ Business	5
H Sci 150 or Psc& 200	Human Life Span, Growth and Development or Lifespan Psychology	5

Satisfies related instruction requirements.

* Central Washington University (CWU courses) ExSci 250 and ExSci 351 and Washington State University courses MvtSt 262 and MvtSt 380 will meet the AP 103 and AP 104 PTA degree requirement at Green River College.

Welding Technology

Associate in Applied Science Degree

100-105 Credits

Upon completion of the two-year program, the student will qualify for an Associate in Applied Science degree. This training will permit the student to seek employment in the welding field as an engineering aide, sales engineer, and structural steel detailer or trade welder. The student will be prepared to advance rapidly to inspection, shop planning, supervision or one of many related fields. With the proper selection of courses, the student can continue his/her education to become a welding engineer. Consultation with the Welding department is required for admission to the program.

Students may enter the Welding Technology program during any quarter, as space is available.

Contacts: Scott Schreiber, ext. 4421 Jack Danielson, ext. 4252
sschreiber@greenriver.edu danielson@greenriver.edu

Paul Mueller, ext. 2635
pmueller@greenriver.edu

<u>Dept./No.</u>	<u>Course Title</u>	<u>Credits</u>
First Year		
# Acomp 101 or	Computation for the Trades or Eligible for Math 070, Pre-Algebra or Completion of Math 062, Review of Arithmetic	0-5
# Cmst 100	Fundamentals of Oral Communication	5
# Engl 109	Writing for Trades and Professional/ Technical Degrees	5
Weld 141	Basic Arc Welding and Flame	13
Weld 142	Intermediate Arc Welding	13
Weld 143	Advanced Arc Welding	13

Second Year

# Human Relations	Any course that satisfies the Human Relations Requirements	5
I E 189	Basic Metallurgy	4
Weld 107	Basic Blueprint Reading	3
Weld 194	Special Welding Project 1	13
Weld 195	Special Welding Project 2	13
Weld 196	Special Welding Project 3	13

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

Note: Student must possess a valid first aid card or similar Washington State L&I Training Card upon exiting the program.



Cancelled Degrees and Certificates

Associate in Applied Science Degree

- Construction Design Technology, AAS
- IT-Networking, AAS-T
- Mechanical Design Technology, AAS
- Manufacturing Technology CIM, AAS

Certificate of Proficiency

- Architectural Drafting Proficiency
- Architectural, Structural and Civil Drafting
- Caregiving Fundamentals: Introduction to Health Occupation
- Civil Drafting Proficiency
- Drafting Proficiency
- Mechanical 3-D CAD
- Mechanical CAD Proficiency
- Mechanical Drafting
- Structural Drafting



COURSE DESCRIPTIONS

New Courses

A SIM 111 (1) Private Pilot Flight Simulation Flight simulation activity that provides hands-on experience with private pilot flight operations using an FAA approved flight simulator. Applied learning topics include preflight preparation and procedures; airport surface operations; takeoffs, landings, and go-arounds; flight performance maneuvers; ground reference maneuvers; navigation; slow flight; stalls; basic instrument maneuvers; emergency flight operations; night operations; and postflight procedures. Students gain introductory experience in the flight operations specified in 14 CFR 141, Appendix B, Paragraph 4(d)(1) for the FAA Private Pilot, Airplane certificate. PREREQUISITE: AVIA 11 or instructor's permission.

A SIM 216 (2) Basic Instrument Flight Simulation Flight simulation activity that provides hands-on experience with flight operations in instrument meteorological conditions using an FAA approved flight simulator. Applied learning topics include preflight preparation and procedures; air traffic control clearances and procedures; flight by reference to instruments; navigation systems; instrument approach procedures; emergency operations; and postflight procedures. Students gain introductory experience in the flight operations specified in 14 CFR 141, Appendix C, Paragraph 4(d) for the FAA Instrument, Airplane rating. PREREQUISITE: A SIM 111 and AVIA 216; or instructor's permission.

A SIM 218 (1) Commercial Pilot Flight Simulation Flight simulation activity that provides hands-on experience with commercial pilot flight operations using an FAA approved flight simulator. Applied learning topics include preflight preparation and procedures; airport surface operations; takeoffs, landings, and go-arounds; flight performance maneuvers; navigation; slow flight; stalls; emergency flight operations; multiengine and high-altitude operations; and postflight procedures. Students introductory experience in the flight operations specified in 14 CFR 141, Appendix D, Paragraph 4(d)(2) for the FAA Commercial Pilot, Airplane certificate. PREREQUISITE: A SIM 111 and AVIA 218; or instructor's permission.

AMES 105 (5) Social Inequity and Change in American Sports Examines issues of diversity in American sports from 1900 to the present. Topics include the ways in which social inequality affects access to and participation in sports, how sports contribute to the stereotyping of marginalized groups in society and the ways in which athletes and sports have been agents of social change by challenging norms and assumptions concerning race, gender, sexuality and ability. PREREQUISITE: ENGL 099 or instructor's permission. Satisfies a social science

requirement for AA degree. . AMT 111 (17) AMT-General Section 1 Covers the basic principles of aircraft maintenance covering topics such as weight and balance, fluid lines and fittings, materials and processes, mechanic privileges and limitation. Also covers tool and shop safety, cleaning and corrosion, maintenance forms and publications. Emphasizes work ethics and safety responsibilities. PREREQUISITE: Reading placement 080 or above.

AMT 112 (17) AMT-General Section 2 Covers basic flight forces, the use of measuring equipment, aircraft drawings, basic flight controls, jet and propeller aircraft flight performance, stability, basic electrical systems including symbols and components. Calculations and measurements of voltage and resistance. Basic computational methods for determining areas, volume and distances. Covers proper ground operations and servicing. PREREQUISITE: AMT 111 or instructor's permission.

AMT 211 (17) AMT Airframe Section 1 Covers basic aerodynamics and inspection, servicing, troubleshooting, and repairing of electrical and mechanical flight instrument systems. Also covers communication and navigation systems, cabin control systems, basic welding of airframe parts, and inspections of wood structures, aircraft coverings and airframes. PREREQUISITE: AMT 112 or instructor's permission.

AMT 212 (17) AMT Airframe Section 2 Covers the proper technique for painting and finishing of aircraft parts and airframe components. Also covers the correct technique for riveting, cutting, and bending of sheet metals and non-metallic structures. PREREQUISITE: AMT 211 or instructor's permission.

AMT 213 (17) AMT Airframe Section 3 Covers inspection, service, and repair of ice and rain control systems and general aircraft warning devices. Also covers repair of landing gear systems and components, hydraulics, pneumatic and fuel systems. PREREQUISITE: AMT 212 or instructor's permission.

AMT 221 (17) AMT PowerPlant Section 1 Covers the overhaul, inspection, service, and repair of reciprocating engines and engine components, such as ignition systems, cooling and exhaust, fuel, induction and ignition. Introduces general operations, maintenance and record keeping procedures for engines and components. PREREQUISITE: AMT 213 or instructor's permission.

AMT 222 (17) AMT PowerPlant 2 Covers inspection, service, and repair of turbine



engines and turbine engine components. Includes troubleshooting, service, and repair of engine cooling, ignition, electrical generators and rotor system components. Includes repair of engine exhaust, starting and oil systems. PREREQUISITE: AMT 221 or instructor's permission.

AMT 223 (17)

AMT PowerPlant 3

Covers troubleshooting, servicing, and repair of electrical and mechanical fluid rate-of-flow indicating systems. Inspection, service, troubleshooting, and repair of electrical and mechanical temperature, pressure, and general indicating systems. Inspection of fire protection and suppression systems, auxiliary power units and unducted fan engines. PREREQUISITE: AMT 222 or instructor's permission.

AVIA 131 (5)

Aviation Ground School

Includes instruction in aerodynamics, navigation, weather, communications, regulations, flight physiology, weight balance, and minimum employment requirements necessary for various aviation careers.

AVIA 194 (1-10)

Aviation Special Topics

Covers operation of large U.S. and international airlines. Includes setting passenger fares and cargo rates, regulations, marketing, labor, responding to competition, scheduling, reservation, dispatch and aircraft selection. Also includes discussion of aviation careers.

BUS 259 (5)

Customer Service Representative Practicum

Students engage in a simulated contact center to develop proficiency in customer service by applying human relations, communications, conflict resolution, and problem solving skills.

BUS 300 (5)

Introduction to Entrepreneurial Leadership

Students study leadership theories, skills and practices necessary for effectiveness in varied entrepreneurial settings. Examines the interpersonal and strategic characteristics of the successful entrepreneur. Major topics include team dynamics, leading people, leading by example, leading projects, creating goals, and setting expectations. PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program; and BUS 121; and (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); or instructor's permission.

BUS 401-405 (5)

Special Topics 1-5: Marketing and Entrepreneurship

Students study and train to meet established needs in business, marketing and entrepreneurship practices. Course content varies each time it is offered. Intended to meet the program outcomes associated with the Bachelors of Applied Science in Marketing and Entrepreneurship. PREREQUISITE: Admission into the BAS Marketing and Entrepreneurship program; or instructor's permission.

ENGL 250 (5)

U.S. Indigenous Literatures

A focus on the literary, oral, and cultural traditions of U.S. indigenous communities, including Native Americans, Alaska Natives, and Pacific Islanders. Course involves critically reading and interpreting important literary genres including non/fiction, drama, poetry, autobiography, critical essays, and epistolary works which can also be situated in other cultural narrative genres such as songs/chants/music, dance narratives, film and documentary. Additionally, this course incorporates a study of historical, political, and cultural texts to contextualize the works. Examines how Native American writers combine tradition and contemporary ways to develop innovative forms of expression. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

ENGL 251 (5)

Asian American Literatures

A study of selected literature and other cultural productions by Asian American writers from various countries and immigration histories, including China, Japan, India, Korea, the Philippines, and Vietnam, among others. Examining genres such as poetry, fiction, drama, spoken word, and memoir, contextualized alongside film, music, and other forms of popular culture, students address issues such as identity, race, gender, sexuality, class/income, exclusion, resistance, cultural preservation, religion, generation, language, assimilation, disability, multi-racialism, and activism. Students read individual texts closely, explore various literary critical and comparative approaches, situate texts in their historical and cultural contexts, and produce their own written interpretations.

PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirements for AA degree.

ENGL 264 (5)

Shakespeare on Film

Analyze several of Shakespeare's plays and how they are adapted and portrayed on film. Study the original text (complete plays and/or excerpts) and one or more film adaptations of those plays, interpret and analyze themes and cultural parallels and modern relevancy. Apply film terms, literary analysis, and cultural analysis (including class, race, and gender issues).

PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirements for AA degree.

ESOL 082 (1-18)

On-Ramp to Healthcare Level 2

Provides beginning level ESOL students with the tools they need in order to prepare for an IBEST healthcare class or to take their next steps towards college level classes. Focuses on developing and improving reading, writing, listening, and speaking in English to enhance students' prospects for successfully completing an IBEST program. PREREQUISITE: ESOL 011, placement test, or instructor's permission.

ESOL 083 (1-18)



On-Ramp to Healthcare Level 3

Provides high-beginning level ESOL students with the tools they need in order to prepare for an IBEST healthcare class or to take their next steps towards college level classes. Focuses on developing and improving reading, writing, listening, and speaking in English to enhance students' prospects for successfully completing an IBEST program. **PREREQUISITE:** ESOL 012, placement test, or instructor's permission.

ESOL 084 (1-18)

On-Ramp to Early Childhood Level 2

Provides high-beginning level ESOL students with the tools they need in order to prepare for an IBEST healthcare class or to take their next steps towards college level classes. Focuses on developing and improving reading, writing, listening, and speaking in English to enhance students' prospects for successfully completing an IBEST program. **PREREQUISITE:** ESOL 012, placement test, or instructor's permission.

ESOL 085 (1-18)

On-Ramp to Early Childhood Level 3

Provides high-beginning level ESOL students with the tools they need in order to prepare for an IBEST early childhood class or to take their next steps towards college level classes. Focuses on developing and improving reading, writing, listening, and speaking in English to enhance students' prospects for successfully completing an IBEST program. **PREREQUISITE:** ESOL 012, placement test, or instructor's permission. This is a pass/no credit course.

ESOL 086 (1-18)

On-Ramp to Early Childhood Level 4

Provides intermediate level ESOL students with the tools they need in order to prepare for an IBEST early childhood class or to take their next steps towards college level classes. Focuses on developing and improving reading, writing, listening, and speaking in English to enhance students' prospects for successfully completing an IBEST program. **PREREQUISITE:** ESOL 013, placement test, or instructor's permission. This is a pass/no credit course.

ESOL 087 (1-18)

On-Ramp to Healthcare Level 4

Provides intermediate level ESOL students with the tools they need in order to prepare for an IBEST early childhood class or to take their next steps towards college level classes. Focuses on developing and improving reading, writing, listening, and speaking in English to enhance students' prospects for successfully completing an IBEST program. **PREREQUISITE:** ESOL 013, placement test, or instructor's permission. This is a pass/no credit course.

FRCH& 222 (5)

French V

Systematic review of French grammar aimed at communicative competency at an intermediate level. Intensive practice in listening, speaking, reading, and writing with special emphasis on reading and reacting to texts that explore the diversity of the French speaking world, as well as the global and local implications of gender, racial and cultural interdependence. Includes oral practice through discussion of above-mentioned materials. **PREREQUISITE:** A grade of 2.0 or higher in FRCH& 221 or equivalent with instructor permission. The equivalent of FRCH& 221 is four years in high school with a grade of B or above higher. Eligible for ENGL 099. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

FRCH& 223 (5)

French VI

Systematic review of French grammar aimed at communicative competency at an upper intermediate level. Intensive practice in listening, speaking, reading, and writing with special emphasis on reading and reacting to texts that explore the diversity of the French speaking world, as well as the global and local implications of gender, racial and cultural interdependence. Includes oral practice through discussion of above-mentioned materials. **PREREQUISITE:** A grade of 2.0 or higher in FRCH& 222 or equivalent and instructor's permission. Eligible for ENGL 099. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

HUMAN 192 (5)

Introduction to Spanish Life and Culture

Students learn the various aspects of Spanish culture through the humanities. Students explore Spanish culture through history, literature and film. Explores the diverse cultural influences that have converged to influence the resulting Spanish culture of Spain. **PREREQUISITE:** Eligible for ENGL 099.

Human 193 (5)

Introduction to Francophone Life and Culture

Students learn the various aspects of francophone culture through the humanities. Students discover the history, literature, art and film of the francophone world. Students also gain an appreciation of the many diverse cultural influences that make up the French Speaking world. **PREREQUISITE:** Eligible for ENGL 099.

IT 100 (3)

Introduction to IT and Cybersecurity

Explores the areas of Windows, Linux, and network administration, software development, and cybersecurity. Includes and introduces the competencies required for each area of employment, and the planning of a degree program to receive both an Associates and a Bachelor's degree in Information Technology.

IT 206 (5)

Front-End Web Development

Covers the fundamentals of web page production. Students learn the three layers of front-end web development: HTML for structure, CSS for styling, and JavaScript for

behavior. Emphasizes design for usability and accessibility. Students learn how the Internet works, how a web page is processed, and how to launch a website on the Internet. PREREQUISITE: IT 102 or instructor's permission.

IT 207 (5)

Web Programming with JavaScript

Introduces students to JavaScript, a powerful programming language for creating dynamic, interactive web pages. Students learn the basics of JavaScript, and apply it toward the development of a website. Topics include language constructs and syntax, event-driven programming, manipulating the Document Object Model (DOM), form validation, and utilizing JavaScript libraries, such as jQuery. PREREQUISITE: IT 102 or instructor's permission.

IT 219 (5)

Programming 1

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.

JAPN& 221 (5)

Japanese IV

A direct continuation of JAPN& 123. Focuses on the systematic study of Japanese vocabulary, grammar, kanji and Japanese culture using the four basic skills of listening, speaking, reading and writing. Fulfills the University of Washington College of Arts and Sciences graduation requirement. Satisfies a humanities/fine arts/English requirement for a AA degree.

MATH& 146 (5)

Introduction to Statistics

Introduction to the analysis of statistical studies, descriptive statistics, basic probability, sampling distributions, hypothesis testing, confidence intervals, and correlation. PREREQUISITE: MATH 097 with a grade of 2.5 or higher; or instructor's permission. RECOMMEND: Eligible for READ 104. Satisfies a natural science or quantitative skills requirement for AA degree.

NATRS 300 (6)

Forest Ecology

Students examine and analyze natural resource policy including environmental impact statements, environmental assessments, and habitat conservation plans. Students appraise and critique administrative behavior, as well as legislative, regulatory, legal, ethical, and personnel considerations as applied to forestry operations in Washington State and nationally. Students discuss and demonstrate applications of Washington Forest Practices. PREREQUISITE: ENGL 128 and NATRS 390 and instructor's permission.

NATRS 301 (5)

Resource Economics

Emphasizes the practical understanding of distribution of limited resources be it financial or physical. Financial topics include forest resource valuation and financial analysis concepts, inflation, risk and

uncertainty, taxes related to both property ownership, and business and financial decision making. The students become familiar with parts of a contract including boilerplate clauses and specialized terms related to logging, road building and timber sales. Covers timber sale and unit appraisal. Labs focus on computational problems and associated computer software used in the forest management industry. PREREQUISITE: NATRS 180 or MATH& 141 or higher; or instructor's permission.

NATRS 385 (5)

Forest Protection and Disease Management

Teaches students about the various biotic and abiotic disturbance agents that affect forest ecosystems. Students identify important forest insects and diseases of North America, especially the Pacific Northwest, as well as their effects on forest ecology. Students learn predisposing factors that increase susceptibility as well as propose effective management strategies to reduce impacts. PREREQUISITE: ENGL 128 and instructor's permission.

NATRS 386 (5)
Bio-Invasions: Invasive Species Management
 Walks students through the positive identification of invasive species and noxious weeds in Washington State. Students have the opportunity to learn about non-plant invasives and observe or participate in their management. Students learn sources of invasive species, methods of control and visit sites where biological, mechanical and chemical control has been used. Students learn the ecology behind biological invasions and assess invasive species control in the field. Students participate in mechanical control methods in various locations targeting various invasive species and have the opportunity to observe chemical methods. Students produce an invasive species management plan. PREREQUISITE: ENGL 128 and instructor's permission. Concurrent enrollment with NATRS 417.

NATRS 390 (5)
Forest Protection and Disease Management
 Introduces students to conflict theory as applied in complex natural resource disputes including forest harvest in the Pacific Northwest. Focuses on skill development in planning culturally appropriate and inclusive public participation processes, meeting facilitation, and conflict mediation including option comparison for nonviolent conflict management. PREREQUISITE: ENGL 128 and instructor's permission.

NATRS 399 (1)
Natural Resources Seminar
 Showcases timely speeches by professionals in natural resource management. Guide students through a review of current topics in forestry, fire, watershed, or soils. Presentations by guest speakers and professionals in the field complement student's development of writing and oral presentation skills. PREREQUISITE: ENGL& 101 and instructor's permission.

NATRS 400 (5)
Forest Practices, Law and Policy
 A core Forest Resource Management course. Students examine and analyze natural resource policy including environmental impact statements, environmental assessments, and habitat conservation plans. Students appraise and critique administrative behavior, as well as legislative, regulatory, legal, ethical, and personal considerations as applied to forestry operations in Washington State and nationally. Students discuss and demonstrate applications of Washington Forest Practices, Habitat Conservation Plans, Clean Air, Clean Water, and Endangered Species Acts. PREREQUISITE: ENGL 128 and NATRS 390 and instructor's permission.

NATRS 401 (5)
Advanced Harvest Systems: Cable and Aerial Based
 Focuses on in-depth understanding of various harvest systems for the applied forester or land manger. Topics include skyline operations, safety rules, rigging requirements, payload analysis, harvest unit planning and layout. Specialized areas include helicopter logging, Riparian Management Zone (RMZ) rules, Wetland Management Zones (WMZ) rules, Channel Migration Zone (CMZ) rules and unstable slopes. PREREQUISITE: ENGL 335 or equivalent; NATRS 180 or equivalent and instructors

permission.

NATRS 402 (5)
Advanced Harvest Systems: Ground Based
 Focuses on more in-depth understanding of various harvest systems for the applied forester or land manager. Topics include mechanical operations for ground based systems, rigging requirements, payload analysis, harvest unit planning and layout. Specialized areas include helicopter logging, Riparian Management Zone (RMZ) rules, Wetland Management Zones (WMZ) rules, Channel Migration Zone (CMZ) rules and unstable slopes. PREREQUISITE: ENGL& 335 (or equivalent); NATRS 180 or higher (or equivalent) and instructor's permission.

NATRS 403 (5)
Transportation System Design
 An intermediate level class for foresters and resource managers in issues and responsibilities relating to transportation systems. Students study road types, standards and design procedures. Includes basic soil engineering, route surveying, reconnaissance and design software. Specialized topics include design and installation of drainage structures, erosion control techniques and methods, and material stockpiles. Covers administrative activities such as road costing, rules, regulations, permits and road maintenance plans. PREREQUISITE: ENGL 335 or equivalent; NATRS 180 or equivalent and instructor's permission.

NATRS 417 (1)
Resource Management GIS Applications 1
 A supplementary GIS lab that accompanies NATRS 386 Advanced Silviculture (GRC only). Students apply GIS principles to generate projects for NATRS 386. Students build on their current GIS skills and employ trouble shooting and problem solving with the ultimate outcome of successful spatial mapping and analysis to complete NATRS 386 assignments. PREREQUISITE: NATRS 192. Concurrent enrollment with NATRS 386 and instructor's permission.

NATRS 418 (1)
Resource Management GIS Application s 2
 A supplementary GIS lab that accompanies NATRS 493 Advanced Silviculture (Green River College and Grays Harbor College). Students apply GIS principles to generate projects for NATRS 493. Students build on their current GIS skills and employ trouble shooting and problem solving with the ultimate outcome of successful spatial mapping and analysis to complete NATRS 493 assignments. PREREQUISITE: NATRS 192. Concurrent enrollment with NATRS 493 and instructor's permission.

NATRS 419 (1)
Resource Management GIS Applications 3
 A supplementary GIS lab that accompanies NATRS 461 Wildlife Ecology (GRC only). Students apply GIS principles to complete projects for NATRS 461. Students build on their current GIS skills and utilize trouble shooting and problem solving with the ultimate outcome of generating successful spatial mapping and analysis to complete NATRS 461 assignments. PREREQUISITE: NATRS 192. Concurrent enrollment with NATRS 461 and instructor's permission.

NATRS 461 (5)
Wildlife Ecology
 Students examine, identify and determine important wildlife habitats and their characteristic plants and animals within an ecological and management context through outdoor application of concepts. Discusses identification of species and habitats as well as life histories and ecology of important species. Examines and critiques scientific principles and management implications. Students organize and carry out a scientific sampling and assessment in the field. PREREQUISITE: Instructor's permission.

NATRS 471 (5)
Restoration Techniques
 Examines forest restoration at multiple spatial scales from stand to watershed to landscape levels. Students demonstrate outdoor skills and conduct restoration assessments. Compares goals for biological conservation, invasive species management, carbon sequestration, and economic viability through field trips and applied experience with restoration techniques and case studies. PREREQUISITE: ENGL 128 and instructor's permission.

NATRS 493 (5)
Restoration Techniques
 Students learn, through classroom and field studies, woody plant interactions with environmental stresses including changes to stand structure caused by humans, nature or time and selection using genetic principles for improved growth. Additionally students participate in hands-on seedling production methods while applying the theory and practice of controlling forest establishment, composition, and growth. Students assess fundamentals of forest stand development and dynamics and will use critical thinking to propose forest stewardship techniques to satisfy a range of possible objectives (biological, economic, and social). PREREQUISITE: ENGL 128 and NATRS 180 or concurrent enrollment in MATH& 146; Concurrent enrollment in NATRS 418; and instructor's permission.

NATRS 494 (5)
Capstone in Natural Resources
 Offered as a variable credit course (1-5) based on student projects and can be taken more than once to complete 5 total capstone credits. Students participate within the community in a hands-on application where they will synthesize knowledge and skills to create or construct a desired project outcome for a forestry-related project. Students produce projects individually or in a team, culminating in a public presentation and report. PREREQUISITE: Instructor's permission.

O T 124 (2)
Physical Disabilities 1 Lab
 Basic assessment and treatment techniques as it relates to adult physical disabilities. Lab allows for practical experience in patient assessment, transfers and daily living skills. Course runs concurrent with O T 114. PREREQUISITE: Concurrent enrollment in O T 114 ; and instructor's permission.

O T 126 (2)
Physical Disabilities 2 Lab
 Basic assessment and treatment techniques as it relates to adult physical disabilities. Lab allows for practical experience in patient assessment, transfers, and daily living skills. Concurrent enrollment with O T 116. PREREQUISITE: H SCI 102, O T 114, O T 124, and concurrent enrollment in O T 116.

O T 233 (3)
Therapeutic Practices in Clinical Skills Training
 An advanced level course that emphasizes the application of therapeutic practices in a clinical context. Includes training and feedback in areas related to client care including chart review, intervention planning, intervention implementation, documentation and discharge planning. PREREQUISITE: O T 114, O T 124, O T 116, O T 126 and O T 118. Concurrent enrollment in O T 223.

P E 247 (2)
Advanced Pilates/Yoga
 Allows students to continue their training in Pilates and yoga by training core muscle groups--abdomen, lower back, hips, and buttocks. Focuses on building a stronger, healthier body, and improving posture, circulation, energy and stamina. Emphasizes stretching and relaxing the mind and body. PREREQUISITE: P E 147.

PHIL 108 (5)
Historical Survey-Contemporary Philosophy
 Introduces students to a survey of issues in philosophy from roughly the beginning of the twentieth century to the present. Key figures include Frege, Russell, Moore, Wittgenstein, Quine, Davidson, Kripke, and Putnam. Key topics include Logical Atomism, Logical Positivism, Ordinary Language Philosophy, Truth, Meaning, Reference, and Interpretation. May also discuss reactions to contemporary philosophy in the form of phenomenology, pragmatism, and existentialism. PREREQUISITE: Eligible for ENGL 099 or instructor's permission.

PHIL 111 (5)
Science, Technology and Value
 Introduces students to the social, environmental, and ethical implications of contemporary science and technology. Topics include the normative ethics of behavior, value theory, and metaphysics together with issues on artificial intelligence, internet privacy, climate change, biotechnology, gender, and everyday artifacts. PREREQUISITE: Eligible for ENGL& 101.

POLS 220 (5)
Food Politics and Law
 A comparative politics and law course considering motivations/behaviors of food producers, lobbyists, and members of legislative bodies, including the respective roles of governmental regulatory agencies, as well as case law relevant to food/agricultural issues pertaining to customs, ethics, political culture and the profit motive. The potential effects and implications of relevant and actual trade agreements (actual and proposed/pending). PREREQUISITE: Instructor's permission. Satisfies a social science requirement for AA degree.



SOC 214 (5)
Sociology of Race and Ethnicity
Overview of major sociological perspectives in the study of race and ethnicity in society, including group relations, social stratification, and social change. Students survey theories, data, and sociohistorical/cultural processes useful for better understanding today's social world. Emphasis is placed on using sociological scholarship to solve modern racial dilemmas. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

TS 024 (5)
HW 21+ Pacific NW & Washington State History
Examines the emergence of the modern Pacific Northwest beginning with the earliest geological creation of the region and continuing with Native American habitation, contact with Euro-Americans, the development of trade and early settlement, the development of an industrial economy, the cycle of 20th century wars and depression, and the post-World War II emergence of the Pacific Northwest. Students who successfully complete this course will earn High school 21+ credits in Washington State History. PREREQUISITE: Appropriate CASAS placement score and instructor's permission.

TS 025 (3-5)
Civics and Government for HS+21
Introduces students to the American political system; its core values and principles as set forth in foundational documents, as well as its origins, institutions and operations. Includes brief treatments of political parties, historic development of American politics, civil liberties, plus taxes and budgets. Introduces students to the rights and responsibilities of citizenship and of democratic civic involvement. Students who successfully complete this course earn High School 21+ credits in Civics and Government. PREREQUISITE: Appropriate CASAS placement score and instructor's permission.

TS 045 (5-10)
Language Arts in Life Science Level 5
Introduces Level 5 students to the basic principles of life science through reading and writing. Also introduces students to the history and nature of science. Students explore the fundamental concepts of cells, populations, ecosystems, and natural selection. Students who successfully complete this course earn High School 21+ credits in a Life Science. PREREQUISITE: Appropriate CASAS placement score and instructor's permission.

TS 046 (5-10)
Language Arts in Life Science Level 6
Introduces Level 6 students to the basic principles of life science through reading and writing. Also introduces students to the history and nature of science. Students explore the fundamental concepts of cells, populations, ecosystems, and natural selection. Students who successfully complete this course earn High School 21+ credits in a Life Science. PREREQUISITE: Appropriate CASAS placement score and instructor's

permission.
TS 051 (1-5)
Fundamentals of Numeracy
Students learn to understand the language of math, and develop skills to easily accomplish well-defined and structured math tasks independently in a range of relevant settings using whole numbers and decimals. Students also develop basic English language reading, listening, and speaking skills contextualized with math acquisition. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

TS 055 (5-10)
Transitional Studies Math Review
Students review basic operations of arithmetic including whole numbers, fractions, decimals, percents, ratios, proportions, place value, roots, and basic concepts related to measurements and geometry. Methods include use of hands-on manipulatives. Study skills incorporate into the curriculum. PREREQUISITE: Appropriate CASAS placement score and instructor's permission.

TS 056 (5-10)
Transitional Studies Pre-Algebra
Study of problem solving, geometry and measurement, exponents and signed numbers. Includes introductory work with polynomials, simple equations, basic descriptive statistics, and graphing. PREREQUISITE: MATH 062 or TS 055; or appropriate CASAS placement score; or high school transcript evaluation; and instructor's permission.

TS 057 (5)
Transitional Studies Elementary Algebra
Study of properties and terminology of real numbers, absolute value, simplifying algebraic expressions, integer exponents, graphing and solving linear equations and inequalities, unit analysis, ratios, rates, and proportions, solving systems of equations, factoring and performing operations on polynomial expressions, Pythagorean Theorem, functions, and applications. Course requires a graphing calculator. RECOMMEND: Eligible for READ 104. PREREQUISITE: TS 056 with a grade of 2.5 or higher; or appropriate CASAS placement score; or high school transcript evaluation.

TS 087 (5-10)
Language Arts in Life Science Lab Level 5
Level 5 students are introduced to history, nature, basic principles of life and physical science, interacting directly with the material world, data collection techniques, models and theories of science. Through reading, writing, and laboratory experiments students explore fundamental concepts of cells, populations, natural selection, physics, chemistry, astronomy, earth science. Students who pass this course earn HS21+ LAB Science credits. PREREQUISITE: Appropriate CASAS placement score and instructor's permission.

TS 088 (5-10)
Language Arts in Life Science Lab Level 5



Level 6 students are introduced to history, nature, basic principles of life and physical science, interacting directly with the material world, data collection techniques, models and theories of science. Through reading, writing, and laboratory experiments students explore fundamental concepts of cells, populations, natural selection, physics, chemistry, astronomy, earth science. Students who pass this course earn HS21+ LAB Science credits. PREREQUISITE: Appropriate CASAS placement score and instructor's permission.

TS 095 (5-10)

HS 21+ Prior Learning Assessment 1

Allows students to earn high school-level credit for prior experience or learning on an individual basis. Involves documentation of the skill or training in question, including but not limited to health and fitness, occupational education and fine arts, accompanied by a 2-page (750 word) reflection, written by the student/applicant, that describes the importance of this skill and why it should be considered for high school credit. This is a pass/no credit course.

TS 096 (5-10)

HS 21+ Prior Learning Assessment 2

Allows students to earn high school-level credit for prior experience or learning on an individual basis. Involves documentation of the skill or training in question, including but not limited to health and fitness, occupational education and fine arts, accompanied by a 2-page (750 word) reflection, written by the student/applicant, that describes the importance of this skill and why it should be considered for high school credit. This is a pass/no credit course.

Course Revisions

AVIA 281 (5)

Introduces radar and non-radar air traffic control, flight data processing, aircraft communication, FAA separation standards, controller techniques, and airspace management. Covers computer simulation of ATC problems. PREREQUISITE: AVIA 216 or concurrent enrollment or instructor's permission.

AVIA 300 (5)

Ground school covering principles of instruction, instructor-student interaction, setting standards and developing aviation skills and knowledge in hands-on, one-on-one learning environments with special emphasis on safety methods and skills. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 316 (3)

Advanced Instrument Ground School

Focuses on 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. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 320 (3)

Turbine and Advanced Technologies Ground School

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 procedures, methods and skills. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 330 (3)

Certified Flight Instructor-Multi-Engine

Instruction in how to teach flight students 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 procedures, methods and skills. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 360 (5)

General Aviation (GA) Operations Management

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: Admission to BAS in Aeronautical Science.

AVIA 370 (5)

Aviation Safety Management System

Covers FAA Safety Management System (SMS) concepts and application in various aviation programs including applied learning to develop understanding of FAA SMS methodology and procedures. Case studies cover different aspects of the core SMS components (Policy, Risk, Assurance, and Promotion) including how to apply and integrate safety concepts into various aviation industries. Emphasis is on hazard identification and safety risk management, mitigation, and monitoring. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 375 (5)

ICAO Operations Standards

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. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 380 (5)

Aviation Career Development and Marketing

Students research and describe various career opportunities in aviation management and simulate interview techniques. These challenges are due to the variety of changes in the aviation industry and expectation from employers regarding employment interviews. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 385 (5)

Airport Planning and Operations Management

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. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 400 (5)

Airline Operations Management

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. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 410 (5)
Aviation and Aircrew Resource Management

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. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 430 (5)
Aviation and the Global Economy

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. PREREQUISITE: Admission to BAS in Aeronautical Science.

AVIA 490 (5)
Capstone: Aviation Research Projects

Guided research projects on topics of current interest and concern that currently affect or will affect the aviation community locally, regionally, nationally or globally. PREREQUISITE: Admission to BAS in Aeronautical Science.

Aviation – Flight (FLT)

All flight courses require additional flight fees. Green River College partners with local approved 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 an out-of-pocket expense. Students must also obtain a FAA Class II Medical Certificate before entering the program (Class I for ATP License). Any student requesting to take two flight classes simultaneously (dual enrollment) must have the permission of the Instructor of Record (IOR) prior to enrollment. **On or after August 1, 2016, all students will be required to possess a valid FAA Private Pilot License prior to enrolling in any flight course.**

FLT 111 Private Pilot Flight 1 (2)

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 end-of-course requirement for this class is to complete an end-of-course Solo Flight as outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Instructor's permission and a current FAA Class II Medical Certificate. Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Private Pilot License. **Training/programs that include private pilot training are not eligible for VA education benefits.**

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	10	\$180.00	9	\$178.00
Solo Flight	2.5	\$135.00	0.5	\$103.00

FLT 112 Private Pilot Flight (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 end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change. *Prerequisite:* Successful completion of Private Pilot Flight 1 (FLT 111) and Private Pilot Flight 1 (FLT111) solo flight, and instructor's permission, and a current FAA Class II Medical Certificate. **Training/programs that include private pilot training are not eligible for VA education benefits.**

FLT 112	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	29	\$45.00	20	\$75.00
Pre/Post Flight Discussion	6.5	\$45.00	8	\$75.00
Dual Flight	14	\$180.00	15	\$178.00
Solo Flight	8.5	\$135.00	10.5	\$103.00

FLT 211 Instrument Pilot Flight (1)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument Pilot 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 end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Private Pilot License, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 211	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
Training Type	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	13	\$180.00	13	\$222.00

FLT 212 Instrument Pilot Flight

(2)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument Pilot 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 end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Successful completion of Instrument Pilot Flight 1 (FLT 211) and Private Pilot License, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 212	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
Training Type	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	11.5	\$45.00	11.5	\$80.00
Pre/Post Flight Discussion	4.5	\$45.00	4.5	\$80.00
Dual Flight	11	\$180.00	11	\$222.00

FLT 213 Instrument Pilot Flight

(3)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument Pilot 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 end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Successful completion of Instrument Pilot Flight 2 (FLT 212) and Private Pilot License, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 213	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
Training Type	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	11	\$180.00	11	\$222.00
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FLT 231 Commercial Pilot Flight

(1)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Commercial Pilot License. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Private Pilot License and: (A) Instrument Rating appropriate to the aircraft category Rating for which the course applies, (B) or be concurrently enrolled in an Instrument Rating course (FLT 211-213) and pass the required Instrument Rating practical test prior to completing the Commercial Pilot Course, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 231	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
Training Type	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	13	\$180.00	13	\$228.00
Solo Flight	40	\$135.00	40	\$142.00

FLT 232 Commercial Pilot Flight

(2)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Commercial Pilot License. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Successful completion of Commercial Pilot Flight 1 (FLT 231), Private Pilot License and: (A) Instrument Rating appropriate to the aircraft category Rating for which the course applies, (B) or be concurrently enrolled in an Instrument Rating course (FLT 211-213) and pass the required Instrument Rating practical test prior to completing the Commercial Pilot Course, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 232	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
Training Type	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Ground	25	\$45.00	25	\$80.00
Pre/Post Flight Discussion	11.5	\$45.00	11.5	\$80.00
Dual Flight	20	\$180.00	20	\$270.00
Solo Flight	9	\$135.00	9	\$142.00

FLT 233 Commercial Pilot Flight (3)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Commercial Pilot License. Students must follow the requirements of Title 14 of the Code of Federal Rules Part 141 stage check requirement. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Successful completion of Commercial Pilot Flight 2 (FLT 232), Private Pilot License and: (A) Instrument Rating appropriate to the aircraft category Rating for which the course applies, (B) or be concurrently enrolled in an Instrument Rating course (FLT 211-213) and pass the required Instrument Rating practical test prior to completing the Commercial Pilot Course, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 233	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Time (in hours)	Hourly Rate	Training Time (in hours)	Hourly Rate
Pre/Post Flight Discussion	10	\$45.00	10	\$80.00
Dual Flight	22	\$180.00	22	\$270.00
Solo Flight	16	\$135.00	16	\$190.00

FLT 261 Helicopter Instrument Pilot Flight (1)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument Pilot 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 perform basic flight maneuvers. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Private Pilot License, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 261	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Ground	15	\$55.00
Pre/Post Flight Discussion	5.5	\$55.00
Dual Flight	13.5	\$550.00
Stage Check Flight	1.5	\$305.00
Stage Check P/P	0.5	\$60.00

FLT 262 Helicopter Instrument Pilot Flight (2)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument Pilot 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 perform basic flight maneuvers. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Successful completion of Helicopter Instrument Pilot Flight 1 (FLT 261), Private Pilot License, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 262	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Ground	15	\$55.00
Pre/Post Flight Discussion	4.5	\$55.00
Dual Flight	11	\$550.00
Stage Check Flight	2	\$305.00
Stage Check P/P	0.5	\$60.00

FLT 263 Helicopter Instrument Pilot Flight (3)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument Pilot 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 perform basic flight maneuvers. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Successful completion of Helicopter Instrument Pilot Flight 2 (FLT 262), Private Pilot License, and instructor's permission, and a current FAA Class II Medical certificate.

FLT 263	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Pre/Post Flight Discussion	5	\$55.00
Dual Flight	10	\$550.00
Stage Check Flight	2	\$305.00
Stage Check P/P	2	\$60.00



FLT 271 Helicopter Commercial Pilot Flight (1)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Commercial Pilot License. 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 end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Private Pilot License, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 271	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Ground	18	\$45.00
Pre/Post Flight Discussion	13.5	\$45.00
Dual Flight	10.5	\$290.00
Solo/PIC Flight	23	\$290.00
Stage Check Flight	1.5	\$305.00
Stage Check P/P	1	\$60.00

FLT 272 Helicopter Commercial Pilot Flight (2)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Commercial Pilot License. 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 end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Successful completion of Helicopter Commercial Pilot Flight 1 (FLT 271), Private Pilot License, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 272	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Ground	12	\$45.00
Pre/Post Flight Discussion	11	\$45.00
Dual Flight	6	\$290.00
Solo/PIC Flight	15	\$290.00
Dual Instruction	6	\$550.00
Stage Check Flight	2	\$305.00
Stage Check P/P	1	\$60.00

FLT 273 Helicopter Commercial Pilot Flight (3)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Commercial Pilot License. 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 end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Successful completion of Helicopter Commercial Pilot Flight 2 (FLT 272), Private Pilot License, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 273	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Pre/Post Flight Discussion	14.5	\$45.00
Dual Flight	9	\$290.00
Solo/PIC Flight	42	\$290.00
Stage Check Flight	2	\$305.00
Stage Check P/P	2	\$60.00

FLT 281 Instructor Helicopter Pilot Flight (1)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Certified Helicopter Instrument 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 perform basic flight maneuvers. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Commercial Pilot License and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 281	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Ground	20	\$45.00
Pre/Post Flight Discussion	4.5	\$45.00
Dual Flight	11.5	\$290.00
Stage Check Flight	1.5	\$305.00
Stage Check P/P	0.5	\$60.00

FLT 282 Instructor Helicopter Pilot Flight (2)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Certified Helicopter Instrument 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 perform basic flight maneuvers. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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.

Prerequisite: Successful completion of Instructor Helicopter Pilot Flight 1 (FLT 281), Commercial Pilot License, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 282	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Ground	18	\$45.00
Pre/Post Flight Discussion	5	\$45.00
Dual Flight	11.5	\$290.00
Stage Check Flight	1.5	\$305.00
Stage Check P/P	2.5	\$60.00

FLT 291 Helicopter Instrument Instructor Pilot Flight (1)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Certified Helicopter Instrument 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 perform basic flight maneuvers. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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.

Prerequisite: Helicopter Certified Flight Instructor Pilot License, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 291	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Ground	15	\$45.00
Pre/Post Flight Discussion	5.5	\$45.00
Dual Flight	13.5	\$550.00
Stage Check Flight	1.5	\$555.00
Stage Check P/P	1	\$60.00

FLT 311 Certified Flight Instructor-Flight (1)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Certified 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 end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. **Prerequisite:** Commercial or Airline Transport Pilot License with an Instrument Rating appropriate to the aircraft category and class Rating for which the course applies and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 311	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
Training Type	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	12	\$180.00	12	\$270.00

FLT 312 Certified Flight Instructor-Flight (2)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Certified 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 end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. **Prerequisite:** Successful completion of Certified Flight Instructor-Flight 1 (FLT 311), Commercial or Airline Transport Pilot Certificate with an Instrument Rating appropriate to the aircraft category and class Rating for which the course applies, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 312	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
Training Type	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	13	\$180.00	13	\$270.00

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 the Multi-Engine Rating. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Commercial Pilot License prior to enrolling in the flight portion of an additional aircraft category or additional aircraft class Rating course, and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 321		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 331 Multi-Engine Instructor Rating (2)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Multi-Engine Flight Instructor Rating. An applicant may enroll individually in either the Certified Flight Instructor (FLT 311-312) or the Multi-Engine Instructor course (FLT 331) or enroll in both programs with Instructor permission. 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 Certified Multi-Engine Flight Instructor. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Certified Flight Instructor License and: (A) Commercial Pilot License with an Instrument Rating appropriate to the aircraft category and class Rating for which the course applies or (B) Airline Transport Pilot License and instructor permission, and a current FAA Class II Medical Certificate.

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 338 Instrument Instructor Rating (1)

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and stage check requirements for the Instrument 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 Certified Flight Instructor. The end-of-course requirement for this class is to complete an end-of-course Stage Check outlined in the respective approved flight school's training course outline (TCO). 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. *Prerequisite:* Certified Flight Instructor License and: (A) Commercial Pilot License with an Instrument Rating appropriate to the aircraft category and class Rating for which the course applies or (B) Airline Transport Pilot License and instructor's permission, and a current FAA Class II Medical Certificate.

FLT 338		Crest Airpark Flight Training		Galvin Flight Training, LLC.	
Training Type	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	15	\$180.00	15	\$202.00	

BUS 258 (5)

Principles of Management and Supervision

Integrates and builds upon skills learned in previous Business Management courses. Students learn about strategic planning and decision making, leadership and motivation in the workplace, human resources, and various best practices of successful management. PREREQUISITE: BUS 103 and (BUS 164 or BUS& 101); or instructor's permission.

BUS 310 (5)

Marketing Research and Analytics

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 BUS 121; and (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); or instructor's permission. Recommend: MATH 256.

BUS 335 (5)

Integrated Marketing Communication

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 BUS 121; (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); or instructor's permission.



BUS 340 (5)
Project Management
Examines the theories and best practices for completing projects on time, on budget, and to specification. Students learn to apply knowledge and skills to effectively initiate, plan, execute, and complete projects. Software-based project management tools are discussed. Course aligns with current PMBOK Guide. PREREQUISITE: Admission into a bachelor's program and instructor's permission.

BUS 344 (5)
Entrepreneurial Finance
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 BUS 121, (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); or instructor's permission. Strongly recommend: ACCT 110 or ACCT& 201.

BUS 350 (5)
Production Development and Innovation
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; and BUS 121; and (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); or instructor's permission. Strongly recommend: ACCT 110 or ACCT& 201.

BUS 360 (5)
Sales and Negotiation
Students learn to integrate selling and negotiation strategies to effectively create productive buyer-seller relationships. Topics include strategic prospecting, managing the sales funnel, developing sales proposals, applying interest-based negotiations principles, and developing options for mutual gain. PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program; and BUS 121; and (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); or instructor's permission. Recommend: BUS 159.

BUS 365 (5)
Consumer Behavior
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; and BUS 121; and (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); or instructor's permission.

BUS 385 (5)
Operations Management for Competitive Advantage
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 BUS 121; (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); or instructor's permission. Recommend: MATH 256.

BUS 390 (5)
Digital Marketing
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 121; and (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); or instructor's permission.

BUS 395 (5)
Strategic Marketing and Management
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 121; and (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); and (BUS 310, BUS 335, BUS 344, BUS 350, BUS 365, and BUS 390); or instructor's permission. Recommend: BUS 258.

BUS 400 (5)
Personal and Professional Branding
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; and BUS 121; (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); or instructor's permission.

BUS 460 (5)
Venture Launch 1
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 121; and (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); and BUS 395; or instructor's permission.

BUS 490 (5)
Venture Launch 2
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 121; and (BUS& 101 or BUS 181); and (MATH& 141 or MATH 147); and BUS 460; or instructor's permission.

CARP 113 (1-13)
Foundations and Floor Framing
A competency-based course. Major areas of study include foundation forming and floor framing principles and practices; carpentry computation related to foundations and floor framing; International Residential Building Code requirements relating to foundations and floor framing; and related OSHA/WISHA construction safety standards. Credits are awarded upon competency completion. Leadership, workplace ethics, human relations, cultural diversity, attendance, punctuality, and craftsmanship are integral to instruction. PREREQUISITE: Instructor's permission.



CARP 114 (1-13)
Wall and Roof Framing
A competency-based course. Major areas of study include wall and roof framing principles and practices; carpentry computation related to wall and roof framing; International Residential Building Code requirements related to wall and roof framing; and OSHA/WISHA construction safety standards. Credits are awarded upon competency completion. Leadership, workplace ethics, human relations, cultural diversity, attendance, punctuality, and craftsmanship are integration to instruction. PREREQUISITE: Instructor's permission.

CARP 115 (1-13)
Exterior and Interior Finish
A competency-based course. Major areas of study include exterior and interior finish carpentry materials; principles and practices; carpentry computation; International Residential Building Code related to exterior and interior finish; and OSHA/WISHA construction safety standards. Credits are awarded upon competency completion. PREREQUISITE: Instructor's permission.

CARP 161 (1-3)
Print Reading
Introduction to reading and interpreting architectural drawings for construction.

CARP 164 (1-4)
Intermediate Woodworking and Cabinetry
A competency-based/hybrid course. Intermediate woodworking and cabinetry skills. Topics include wood species identification and characteristics, various cabinet construction methods, common cabinetry materials and hardware, sources for cabinetry parts and components, cabinet design and construction, hardware installation & adjustment, power tool and stationary tool set-up, safety procedures and operations. PREREQUISITE: INDUS 101 or instructor's permission.

CARP 167 (1-3)
Material Estimating
A competency-based course. Introduction to material estimating methods. Topics include foundation, framing, exterior and interior material estimating methods and practices.

CARP 172 (1-4)
Advanced Finish Carpentry
Competency-based/hybrid course that covers the theory and current practice of building various millwork and site-built assemblies, including multi-piece crown systems, tongue and groove recessed panel wainscoting, mantels, column wraps, box-beam ceilings and multi-piece casing systems. Discussion topics also include a variety of pocket-door track systems and their installation.

CRPT 102 (10-12)
Machine Shorthand 80wpm
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.

CS 120 (2)
Introduction to Programming
Introduces fundamental concepts of computer science and computational thinking. Includes introduction to logical reasoning, procedural decomposition, problem solving, and abstraction. Also sets the context for further study in numerical methods and computer science programming

languages. PREREQUISITE: MSTH& 142 or concurrent enrollment; or higher level MATH; or instructor's permission. Cross-listed with ENGR 120.

CS& 131 (5)
Computer Science 1 C++
C++ programming language is used to illustrate concepts in engineering and computer science. Introduces students to problem solving methods, algorithm development and object-oriented design. Students design, implement, document, and debug C++ computer programs. Satisfies a natural science requirement for AA degree. PREREQUISITE: MATH& 142 or higher and ENGR/CS 120; or instructor's permission.

D T 100 (7)
CAD Fundamentals
Introduces computers and software applicable to design drafting-related careers. Primary instruction covers AutoCAD, which is used for computer-aided drafting to create and edit drawings. Includes instruction on file management and an introduction to word processing and basic Excel functions. PREREQUISITE: Eligible for ENGL 081 and READ 104; or instructor's permission.

D T 101 (1-7)
Technical Drafting
Fundamental drawing course that provides students with knowledge of drafting tools and techniques. Includes drafting fundamentals, lettering, geometric construction, orthographic projection, isometric drawing, dimensioning, and sectional views. PREREQUISITE: Eligible for ENGL 081 and READ 104.

D T 102 (7)
Descriptive Geometry
A geographical process used to analyze space relationships by viewing the object or situation in such a way that the relationship being investigated is actual size and measurable. Students apply descriptive geometry to develop and dimensions primary and secondary auxiliary views of 3-D objects. Students use visualization techniques to develop 3-D pictorial drawings dealing with non-isometric surfaces, irregular shapes and compound angles with the use of the isometric protractor. Covers perspective development, inking techniques, line shading and contrast techniques, and exploded and cut-away views. PREREQUISITE: D T 101 or instructor's permission.

D T 113 (5)
Solidworks
Introduces 3-D CAD model creation using a feature-based, parametric solid modeling design program. Course covers base, boss and cut feature creation using extruded, revolved, simple swept or simple lifted shapes; sketching techniques for capturing design intent using automatic or user-defined geometric and dimensional constraints; building assemblies from created parts; detail and assembly drawings creation and bill of material insertion. PREREQUISITE: D T 100 or instructor's permission.

D T 125 (5)
Civil Drafting 1
Introduces civil drafting, symbols, terminology, and standards. Includes development of an engineering drawing from survey notes to its inclusion into a set of construction plans or an engineering report. PREREQUISITE: D T 100 and D T 101.

D T 131 (7)
CADD Across the Industries
Introduces principles, techniques and applications of creating geometry across the different disciplines. Areas of study include a review of selecting views, sectioning and auxiliary views, drafting conventions, format

selection, and comparing dimensioning conventions over different industries. Setting DIMVARS in AutoCAD, Cast parts, machine shop practices, purchasing parts, and career opportunity discussions. PREREQUISITE: Instructor's permission.

D T 135 (5)
3-D CAD Modeling

Focuses on geometric modeling, display manipulation, geometric analysis, file management, online plotting, and the development of wireframe modeling, surface modeling and solids modeling. Introduces mechanical drafting with an emphasis on dimensioning. UCS control and manipulation. PREREQUISITE: Instructor's permission.

D T 141 (5)
Architectural Drafting 1

Students develop architectural drafting skills using AutoCAD and manual drafting including site planning, floor plans, wall sections, roof types, and elevations of single-story structures. PREREQUISITE: D T 101 or either D T 100 or D T 110.

D T 142 (5)
BIM Fundamentals using Revit

Introduction to building design using basic features of REVIT Architecture software. REVIT Architecture software can be applied across the whole building design and documentation process including conceptual design, detailed design, building analysis, construction documentation and visualization. Introduces students to the design concept of Building Information Modeling (BIM), and learn to use REVIT's parametric modeling capabilities to incorporate the industry's BIM concepts. PREREQUISITE: D T 100 or instructor's permission.

D T 145 (4)
Structural Drafting-Steel

Introduces the study of structural steel drafting. Includes engineering fundamentals, welding symbols, seated and framed connections (both welded and bolted), moment connections, detailing various steel products, and the use of standard industry practices. PREREQUISITE: D T 101 or instructor's permission.

D T 146 (4)
Structural Drafting-Concrete

Introduces the study of structural concrete drafting. Discusses pre-stressed and post-tensioned concrete. Includes engineering fundamentals, reinforcement bar detailing, P/C and P/S concrete products, and connections for P/C and P/S concrete, detailing using standard P/C and P/S concrete building products. PREREQUISITE: D T 101 or instructor's permission.

D T 200 (3)
Drafting and Design Capstone

Reviews technical materials including sketching, scales, lettering, line weights, geometric construction, orthographic views, auxiliary views, sectional views, dimensions, notes, working drawings, basic welding symbols, fits, tolerances, and architectural terms and standards. Discusses job placement, interviews and portfolios. Helps transition students from an educational setting by providing the tools to succeed in an industry environment. PREREQUISITE: D T 131 and D T 135.

D T 231 (5)
Mechanical Design (CADD)

Teaches advanced principles, techniques and applications of drafting technology required for the preparation of detail and assembly drawings. Course is based on current industry practices and standards. Areas of study

include dimensioning and tolerancing geometric form and positional tolerancing, shop processes and procedures, layout drawings including developments and triangulation, piping and tubing drawings, welding and welding symbols, and forging and casting drawings. PREREQUISITE: D T 131 or instructor's permission.

D T 232 ()
Drafting and Design Projects

Students work on a project selected from one of two industries, mechanical engineering or architecture and construction fields. Students determine their area of focus through their own chosen course direction. Students propose projects and/or assigned by the instructor. Projects are selected on the basis of difficulty and completeness. Instructor endeavors to obtain a project from a local construction firm, architectural office, or manufacturing company. Design teams create complete documentation sets for the required discipline. PREREQUISITE: D T 131 and D T 135.

D T 237 (4)
MasterCAM 3-D CAD/CAM

Focuses on rapid prototyping using Mastercam software. Includes creation and editing of 2D geometry, 3-D wireframe modeling, 3-D solid modeling, and 3-D surface modeling. Students use programming 3-D toolpaths from 3-D wireframe models and 3-D derived and composite surface and solid models. Covers toolpath editing including project and trim functions, as well as production of prototype model using the milling machine. Discusses the verification and editing of toolpath programs using rendered backplots. PREREQUISITE: Instructor's permission.

ENGL 081 (5)
Fundamentals of Written Communication

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 appropriate Reading COMPASS score. Note: Some students from certain school districts are eligible for the transcript placement option.

ENGL 099 (5)
Introductory Composition

Intensive writing course designed to prepare students for ENGL& 101. Focuses on college-level composition skills (composition and revision processes) and college-level reading analysis. Presents a general review of the rules of English grammar and spelling. PREREQUISITE: Appropriate Reading COMPASS score or ENGL 081 with a grade of 2.0 or higher. Note: Some students from certain school districts are eligible for the transcript placement option.

ENGL& 101 (5)
English Composition

A composition course designed to teach critical reading and clear, purposeful, and effective writing. Writing tasks are related to course readings and prepare students for writing assignments in other college classes. PREREQUISITE: ENGL 099 and READ 104 with a 2.0 or higher; or appropriate Reading COMPASS score; or high school transcript evaluation. Satisfies basic skills requirement for AA degree.



ENGL& 220 (5)
Introduction to Shakespeare
 A study of a selection of Shakespeare's comedies, histories, and tragedies. Plays included may vary each quarter that the course is offered. Selections may include plays being staged in the Seattle area and those to be presented in the forthcoming season at Ashland Shakespearean Festival. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

ENGL 249 (5)
U S Latino Literature
 Examines the literary and cultural traditions of the Chicana/o, Cuban American, Dominican American, Puerto Rican, and Central American writers in the United States. Course includes critically reading and interpreting fiction, drama, poetry, and essays as a way to make distinctions and interconnections between these Latino communities. Themes including exile and exodus, religion and spirituality, patriarchy and feminism, sub/urbanism and border theory among others will inform students' understanding and appreciation of the texts. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

INDUS 101 (4)
Basic Woodworking
 Develops a working knowledge of woodworking as related to layout, assembling, joining, fastening and finishing, and practical application through the use of hand tools and power tools. Students build and keep a personal wood project. Satisfies an activity requirement for AA degree.

I E 204 (5)
Statics and Strengths
 Introduces the concepts of forces, moments, and equilibrium; and the application of these concepts to the determination of stresses and deformations in simple structural members. Includes the analyses of beams, columns and tension members. Involves some materials testing. PREREQUISITE: MATH 116 or equivalent.

IT 141 (5)
Customer Service and Work Environment for IT Professionals
 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. Prepare students to do job searches, resumes and cover letters, and to dress professionally for the work environment. Students learn proper e-mail techniques and meeting etiquette. Prepares students for the ITIL Foundations Certification.

IT 178 (1-4)
IT Work Experience
 Allows students to work full- or part-time in jobs directly related to their IT program and interests. Students may receive a salary or volunteer. This is a pass/no-credit course. PREREQUISITE: Instructor's permission.

IT 220 (5)
Programming 2
 A continuation of IT 219, emphasizing concepts of data abstraction and encapsulation. Topics include inheritance, interfaces, generics, collections, and the implementation of linked lists and binary search trees. PREREQUISITE: IT 219 or CS& 141; or instructor's permission.

IT 301 (5)
Systems Programming
 Introduces students to computer systems from the perspective of a programmer. Topics include data and program representation, the memory hierarchy, processes and threads, database programming, and network programming. PREREQUISITE: Admission into a bachelor's degree program or instructor's permission.

IT 305 (5)
Web Development Frameworks
 Students form software development teams and build responsive database-driven web applications. Focus on understanding and integrating the various technology components of modern web applications. Survey of security practices in the web technology stack. PREREQUISITE: Admission into a bachelor's degree program or instructor's permission.

IT 310 (5)
Routing and Switching in the Enterprise
 Familiarizes students with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, IP Telephony requirements, and security. Introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol. Hands-on exercises include configuration, installation, and troubleshooting. PREREQUISITE: IT 210 and admission into the BAS in IT program or instructor's permission.

IT 328 (5)
Full Stack Web Development
 Continuation of IT 305. Examines design, integration, debugging, and testing in each layer of the web development stack. Topics include integration with relational and NoSQL data stores, application of the Model-View-Controller software pattern, integration with RESTful web APIs, and use of various client- and server-side frameworks. PREREQUISITE: IT 305 or instructor's permission.

IT 333 (5)
Data Structures and Algorithms
 Students study and analyze data structures such as lists, stacks, queues, trees, hash tables, heaps, graphs; analyze runtime performance of algorithms using asymptotic (big O) notation and worst-case analysis. PREREQUISITE: IT 301 or instructor's permission.

IT 335 (5)
Network Security Foundations and Policies
 Introduces information and business security, security laws. Covers a variety of security topics that are integral to today's information security professionals, including access control, cryptography, and security architecture and design. PREREQUISITE: IT 135 and admission into the BAS in IT program; or instructor's permission.

IT 340 (5)
Network Security and Firewalls
 Equips students with the knowledge and skills needed to prepare for entry-level network security specialist careers. A hands-on, career-oriented e-learning solution that emphasizes practical experience. Various types of hands-on labs provide practical experience, including procedural and trouble-shooting labs, skills integration challenges, and model building. PREREQUISITE: IT 210, IT 310, and admission into the BAS in IT program; or instructor's permission.



IT 344 (5)
Virtualization and Storage
Introduces and applies the concepts of server, desktop, and application virtualization, cloud computing, and storage area networks (SANs). PREREQUISITE: IT 190, IT 240, and admission into the BAS in IT program; or instructor's permission.

IT 355 (5)
Agile Development Methods
Students use Scrum, an agile framework for completing complex projects, to develop software and deliver business value to clients. PREREQUISITE: IT 305 or instructor's permission. RECOMMEND: IT 328 and IT 405.

IT 360 (5)
Introduction to Computer Forensics and Vulnerability Assessment
An introductory course. Students learn how to set up a forensics lab, how to acquire the necessary tools, how to conduct the investigation, and prepare for the subsequent digital analysis. Students also learn the basic skills of identifying network vulnerabilities, and some of the tools that are used to perform vulnerability analysis. PREREQUISITE: Admission into the BAS in IT program and instructor's permission.

IT 372 (5)
Software Maintenance and Evolution
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 systems, version control systems, and automated testing frameworks. Exposure to defect management practices such as triage and risk assessment. Students learn to upgrade an existing system without loss of existing functionality. PREREQUISITE: IT 301 and IT 305; or instructor's permission.

IT 385 (5)
Scripting for Windows and Linux
Introduces both the PowerShell scripting language for Windows and the BASH shell used as an interface to the Linux operating system kernel. Builds on the student's existing programming skills, enabling students to write, test, and execute complex administrative scripts for the Windows and Linux operating systems. PREREQUISITE: IT 102, IT 160, IT 190, and admission into the BAS in IT program; or instructor's permission.

IT 405 (5)
Mobile Development Frameworks
Develop mobile (smartphone and tablet) apps using native frameworks (e.g. Android and/or iOS). Compare the strengths and limitations of each platform and of each development framework. Topics include submission to the app store, integration with web services, deployment within an organization, and security and privacy issues. PREREQUISITE: IT 301 and IT 305; or instructor's permission.

IT 426 (5)
Collaborative Design
Software developers collaborate with technical team members to design the internal architecture and components of the software. Topics include design notations, design patterns, refactoring, and design for change. Emphasis on design communication, design integrity, design tradeoffs, and negotiation. PREREQUISITE: IT 301 and IT 305; or instructor's permission.

IT 485 (5)
Software Development Capstone 1
First of two capstone project courses. Students as technical team members partner with business team members and/or clients to develop a product or service concept that fulfills a business need. PREREQUISITE: IT 328, IT 355, IT 405, and IT 426; or instructor's permission.

IT 490 (5)
Capstone: Network and Security
Students work in teams to plan, implement, secure and document a complete network solution for a real or simulated company. Students implement a proof of concept network and present their design and outcomes to an audience. PREREQUISITE: Instructor's permission.

JOURN 101 (5)
Newswriting
Prepares students to write for the media, including newspapers, public relations or online publications. Stresses newswriting mechanics, including covering a news beat, learning news style and newsroom organization and terminology. Instructor encourages students to enroll in JOURN 104 sequence and join the staff of The Current, Green River's print and online publication. Satisfies a humanities/fine arts/English requirement for AA degree.

MATH 097 (5)
Intermediate Algebra
Study of the definition of a function; graphs and solutions of linear equations and inequalities; graphs and solutions of quadratic, rational, radical, and literal equations; complex numbers; radical expressions; variation; and applications. Graphing calculator required. PREREQUISITE: Either MATH 072, 085, or 116 with a grade of 2.5 or higher; or appropriate placement test score; or high school transcript evaluation.

MATH& 141 (5)
PreCalculus 1
Study of piecewise, power, polynomial, rational, exponential, and logarithmic functions and their applications; algebraic combinations of functions; composition of functions; inverse functions; transformations. Graphing calculator required. PREREQUISITE: Either MATH 097 or 117 with a grade of 2.5 or higher or appropriate placement test score or high school transcript evaluation. Satisfies a natural science or quantitative skills requirement for AA degree.

NATRS 180 (6)
Natural Resources Measurement
Application of algebra, geometry, and trigonometry to the solution of tree measurement, surveying, mapping, and orienteering problems. Requires calculator with trigonometric functions and capabilities. PREREQUISITE: MATH 070 with a grade of 2.0 or higher; and instructor's permission.

NATRS 184 (8)
Tree, Shrub and Wildflower Identification
Collects specimens and identifies common trees, wildflowers shrubs, and ferns found in Washington forests. Teaches the use of taxonomic keys and their ecological characteristics and growth habits. PREREQUISITE: NATRS 172 and instructor's permission.

NATRS 210 (5)
Introduction to Soils
Introduces the study of physical and chemical properties of soil and soil ecology. Includes topics on soil formation, plant nutrition, soil water, water and soil conservation, soil erosion and stability, and use of soil maps. Schedules mini labs and field trips to offer hands-on experience. Discusses influence of soils on environmental quality, human health, and forest and agricultural economies. PREREQUISITE: NATRS 172; and instructor's permission.

NATRS 270 (5)
Stream and Wetland Ecology
Students gain an understanding of stream, pond, and wetland ecology

through classroom and field experiences. Students study stream and wetland dynamics, associated plant and animal ecology, streamflow hydraulics, and Washington Forest Practices Regulations in an applied field set ting. Students conduct measurements and sampling within ponds, streams, and wetlands with follow-up analysis and reports. PREREQUISITE: ENGL& 101 and NATRS 172; and instructor's permission.

NATRS 271 (5)

Stream and Wetland Restoration

Stream and wetland restoration is an important issue in forestry, water and fish management. Students are given the opportunity to evaluate fundamental ecological processes with the end result being restoration of streams and wetlands. Students look at possible structure and functional issues within the riparian ecosystem. Students develop an efficient and productive restoration project addressing human-induced changes surrounding both aquatic and terrestrial components. Students learn field sampling methods and how Washington Forest Practices riparian components impact streams in the area and their restoration. Class is taught with limited lecture and extensive field techniques and sampling demonstrations, and interviews with agencies and private organizations. PREREQUISITE: Eligible for ENGL& 101; and NATRS 100 and NATRS 172 or concurrent enrollment; and instructor's permission.

NATRS 284 (7)

Road and Trail Engineering

Covers road and recreational trail location priorities, location on topographic maps with grade, slope, and property line constraints; Forest Practice Regulations; harvesting and construction equipment; curve computation and field layout; slope staking and cut/fill computation; culvert location; surfaces and drainage; calculations for cut/fill and curves; plan and profile drawing of fieldwork. Uses extensive field exercises in team and group situations. PREREQUISITE: NATRS 181 with a grade of 1.5 or higher; and instructor's permission.

Renumbered Courses

From	To
AAM 107.1	AAM 111
AAM 107.2	AAM 112
AAM 108.1	AAM 113
AAM 108.2	AAM 114
BTAC 170.1	BTAC 147
BTAC 170.2	BTAC 148
BTAC 170.3	BTAC 149
BTAC 171.1	BTAC 187
BTAC 171.2	BTAC 188
BTAC 171.3	BTAC 189
BTAC 173.1	BTAC 151
BTAC 173.2	BTAC 152
BTAC 173.3	BTAC 153
BTAC 173.4	BTAC 154
BTAC 173.5	BTAC 155
BTAC 174.1	BTAC 191
BTAC 174.2	BTAC 192
BTAC 174.3	BTAC 193
BTAC 174.4	BTAC 194
BTAC 174.5	BTAC 195
BTAC 176.1	BTAC 164
BTAC 176.2	BTAC 165
BTAC 176.3	BTAC 166
BTAC 176.4	BTAC 167
CRPT 090.1	CRPT 081

CRPT 0902	CRPT 082
CRPT 100.1	CRPT 087
CRPT 100.2	CRPT 088
CRPT 101.1	CRPT 089
CRPT 101.2	CRPT 101
D T 101.2	D T 104
ECED 124.1	ECED 126
ECED 124.2	ECED 127
FLT 324	AVIA 324
FLT 326	AVIA 326
GIS 192	NATS 192
INDUS 102.1	INDUS 111
INDUS 102.2	INDUS 112
INDUS 102.3	INDUS 113
JOURN 100.1	JOURN 104
JOURN 100.2	JOURN 105
JOURN 100.3	JOURN 106
MATH 062J	MATH 060
MATH 062R	MATH 068
MATH 070J	MATH 067
MATH 070R	MATH 078
MATH 072.1	MATH 077
MATH 072J	MATH 069
MATH 072R	MATH 088
MATH 097J	MATH 089
MATH 097R	MATH 098
MATH 115T	MATH 115
MATH 116T	MATH 116
MATH 117T	MATH 117
MUSC 130.1	MUSC 150
MUSC 130.2	MUSC 151
MUSC 130.3	MUSC 152
MUSC 230.1	MUSC 250
MUSC 230.2	MUSC 251
MUSC 230.3	MUSC 252
NATRS 294.1	NATRS 277
NATRS 294.2	NATRS 278
NATRS 294.3	NATRS 279
NATRS 294.4	NATRS 280
O T 114L	O T 124
O T 116L	O T 126
READ 083.1	READ 083

Cancelled Courses

Acct 130.1
Acct 130.2
Acct 130.3
Acct 130.4
Acct 130.5
Bus 205
D T 101.1
D T 102.1
D T 112
D T 147
D T 151
D T 161
D T 165
D T 236
D T 238
D T 240
D T 261
D T 277
D T 278



D T 279
H HSC 110
IT 121
NATRS 183
NATRS 186
READ 083.2
READ 083.3