

# Catalog

Green River College 2015 - 2017

50th

1965 • 2015

**GREEN RIVER  
COLLEGE**

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

<b>ACADEMIC CALENDAR</b>		<b>2015-2016</b>	<b>2016-2017</b>
<b>Summer Quarter</b>		<b>B561</b>	<b>B671</b>
CLASSES BEGIN		June 22	June 20
Independence Day Holiday ( <i>campus closed</i> )		July 3	July 4
LAST DAY OF THE QUARTER ( <i>8-week session</i> )		August 13	August 11
Labor Day Holiday Observed ( <i>campus closed</i> )		September 7	September 5
LAST DAY OF THE QUARTER ( <i>11-week session</i> )		September 3	September 1
<b>Fall Quarter</b>		<b>B562</b>	<b>B672</b>
Campus Workshop		TBD	TBD
Faculty Workshop		TBD	TBD
CLASSES BEGIN		September 21	September 19
Mid-Term Faculty In-Service Day ( <i>day classes cancelled</i> )		October 26	TBD
Advising Day ( <i>day classes cancelled</i> )		November 3	TBD
Veteran's Day Holiday ( <i>campus closed</i> )		November 11	November 11
Thanksgiving Holiday ( <i>campus closed</i> )		November 26-27	November 24-25
Study Day ( <i>day classes cancelled</i> )		December 8	December 6
Final Exams		December 9-11	December 7-9
LAST DAY OF THE QUARTER		December 11	December 9
Christmas Eve Day ( <i>campus closes 12 noon</i> )		December 24	N/A
Christmas Day Holiday ( <i>campus closed</i> )		December 25	December 26
<b>Winter Quarter</b>		<b>B563</b>	<b>B673</b>
New Year's Eve Day ( <i>campus closes 12 noon</i> )		December 31	N/A
New Year's Day Holiday Observed ( <i>campus closed</i> )		January 1	January 2
Faculty In-Service Day ( <i>winter quarter</i> )		TBD	TBD
CLASSES BEGIN		January 4	January 3
Martin Luther King Jr. Holiday ( <i>campus closed</i> )		January 18	January 16
President's Day Holiday ( <i>campus closed</i> )		February 15	February 20
Study Day ( <i>day classes cancelled</i> )		March 15	March 14
Final Exams		March 16-18	March 15-17
LAST DAY OF THE QUARTER		March 18	March 17
<b>Spring Quarter</b>		<b>B564</b>	<b>B674</b>
CLASSES BEGIN		March 28	March 27
Mid-Term Faculty In-Service Day ( <i>day classes cancelled</i> )		TBD	TBD
Memorial Day Holiday ( <i>campus closed</i> )		May 30	May 29
Study Day ( <i>day classes cancelled</i> )		June 7	June 6
Final Exams		June 8-10	June 7-9
LAST DAY OF THE QUARTER		June 10	June 9
Commencement		June 10	June 9
<b>Summer Quarter</b>			<b>B781</b>
CLASSES BEGIN			June 19
Independence Day Holiday Observed ( <i>campus closed</i> )			July 4
LAST DAY OF THE QUARTER ( <i>8-week session</i> )			August 10
LAST DAY OF THE QUARTER ( <i>11-week session</i> )			September 1
Labor Day Holiday ( <i>campus closed</i> )			September 4

Approved:

## IMPORTANT PHONE NUMBERS

### MAIN COLLEGE TELEPHONE NUMBER

Auburn ..... (253) 833-9111

### OFFICES

Admissions .....	ext. 2500
Assessment and Testing Center .....	ext. 2650
Athletics .....	ext. 2481
Campus Life .....	ext. 2400
Campus Safety .....	ext. 3350
Campus Tours .....	ext. 6000
Career and Advising Center .....	ext. 2641
Cashier .....	ext. 2050
Center of Excellence .....	ext. 4360
Conference Service .....	ext. 6010
Continuing and Community Education .....	ext. 2535
Cooperative Education.....	ext. 2550
Counseling Services.....	ext. 2460
Disability Support Services .....	ext. 2631
Diversity, Equity and Inclusion .....	ext. 2403
eLearning .....	ext. 3354
Employment Services.....	ext. 2550
Enrollment Services .....	ext. 2500
Enumclaw Campus.....	ext. 3400
Financial Aid .....	ext. 2449
Health Services .....	ext. 2430
International Programs .....	ext. 3300
Kent Campus.....	ext. 5000
Library.....	ext. 2090
Registration.....	ext. 2500
Running Start.....	ext. 2643
SAFE: Student Assistance for Emergencies.....	ext. 2547
The Paper Tree Bookstore .....	ext. 2069
Tech Prep .....	ext. 2581
TRiO Student Support Services.....	ext. 2655
Tutoring.....	ext. 2325
Veteran Services .....	ext. 2466
Washington State Center of Excellence for Careers in Education .....	ext. 4360
Welcome Center .....	ext. 6000
Worker Retraining .....	ext. 2211
WorkFirst.....	ext. 2211

### FAX (ENROLLMENT SERVICES)

(253) 288-3454

### FOR INFORMATION OR TO CONTACT US

#### Mail:

**Enrollment Services  
Green River College  
12401 SE 320th St.  
Auburn, WA 98092-3622**

**Web: [greenriver.edu/future](http://greenriver.edu/future)**

#### WEBSITE

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

#### CAMPUS VISITS

The Welcome Center offers group and individual tours for potential students during fall, winter, spring and summer quarters. All tours begin at the Welcome Center and take approximately 45 minutes. We would like the opportunity to personalize your tour. Please sign-up at least 24 hours in advance at [greenriver.edu/welcomecenter](http://greenriver.edu/welcomecenter), and include any special requests and/or accommodations. Contact the Welcome Center at (253) 333-6000 or email [gettingstarted@greenriver.edu](mailto:gettingstarted@greenriver.edu) with questions.

K-12 and Community groups can schedule tours by contacting the Outreach staff at [outreach@greenriver.edu](mailto:outreach@greenriver.edu) or (253) 833-9111 ext. 2555.

#### CATALOGS

Catalogs are available in the bookstore and on the web at [greenriver.edu/catalog](http://greenriver.edu/catalog).

#### CLASS SCHEDULES

Green River publishes a class schedule for each quarter of the academic year. Copies are available on campus and on the web. For information, call Enrollment Services at ext. 2500 or visit [greenriver.edu/classschedule](http://greenriver.edu/classschedule).

#### ONLINE SERVICES

- Online services at [greenriver.edu/online](http://greenriver.edu/online) allows students to conveniently access relevant information. Students can do the following online:
- Apply
- Register online and pay tuition by credit card
- View schedules, registration appointments, and advisor information
- Access class information and Schedule Planner
- Withdraw online through the eighth week of the quarter
- Manage a waitlist
- Print an unofficial transcript
- Change student PIN
- Print HOPE scholarship and other tax credit information (1098-T form)
- Access scholarship and financial aid information
- Look up SID number

There are also kiosks where students may access this information in the Technology Center, Holman Library, Welcome Center, and throughout offices in the Lindbloom Student Union.

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## DISCLAIMERS

### Accuracy in Publication

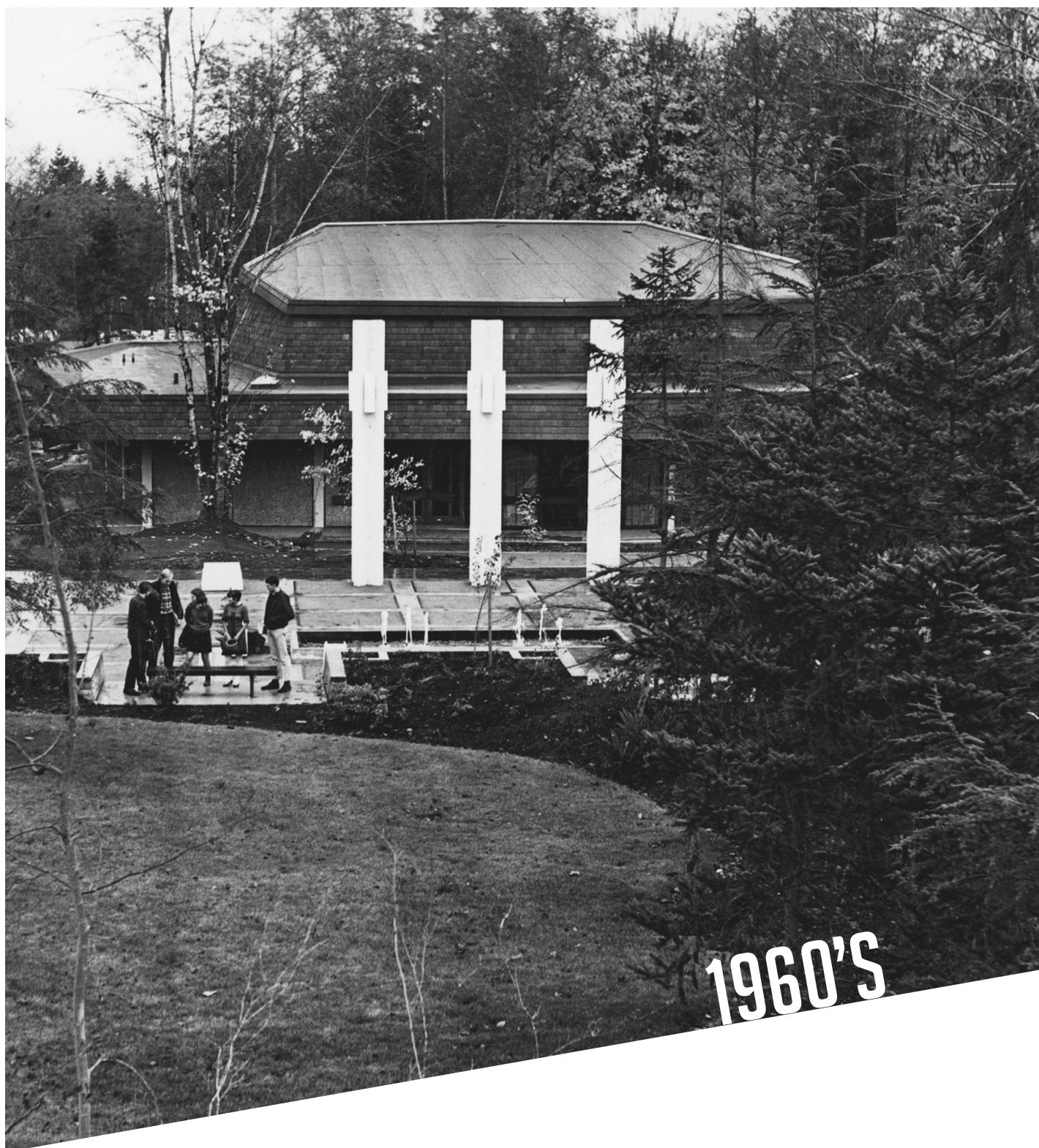
Green River College has made reasonable efforts to provide in this catalog information that is accurate at the time of publication. However, the college reserves the right to make appropriate changes in procedures, policies, calendars, requirements, programs, courses and fees. When feasible, changes will be announced prior to their effective dates, but the college assumes no responsibility for giving any particular notice of any such changes. Nothing contained herein shall be construed to create any offer to contract or any contractual rights.

### Limitation of Liability

The College's total liability for claims arising from a contractual relationship with the student in any way related to classes or programs shall be limited to the tuition and expenses paid by the student to the college for those classes or programs. In no event shall the college be liable for any special, indirect, incidental, or consequential damages, including but not limited to, loss of earnings or profits.

### ADA/Anti-discrimination

Green River College does not discriminate on the basis of race, creed, color, national origin, sex, sexual orientation, age, marital status, religion, disability, genetic information or on any other unlawful basis. The college is committed to preventing and stopping discrimination, including harassment of any kind and any associated retaliatory behavior. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President of Human Resources, 12401 SE 320th Street, Auburn, WA 98092, (253) 288-3320. To receive this information in an alternative format, please contact Disability Support Services at (253) 833-9111, ext. 2631; TTY (253) 288-3359.



1960'S

# Welcome

Getting Started • Student Resources • Academic Information

## WELCOME



**EILEEN E. ELY  
PRESIDENT**

Green River College is a place that empowers students from all walks of life and places all around the globe as they navigate their different pathways. Whether your pathway is career and technical training, college transfer education, gaining skills to become a better employee, or enriching your life through life-long learning, we have a place for you at Green River College!

We believe that our success is rooted in the thousands of students who find a home at Green River College every year. If you are looking for a caring, supportive and challenging learning environment where dedicated and knowledgeable faculty and staff are committed to your future and success, then Green River College is the right place for you.

Green River College has a tremendous impact on our vibrant surrounding communities. For over 50 years, the College has been here to serve the citizens, local industries and above all else, the students. With deep roots in career and technical education, along with academic transfer, Green River College has prepared over 64,000 students for employment or transfer to four-year colleges and universities.

As you walk around our college, I hope you see what I see – that our team of staff and faculty advance the human cause through respect, individuality and civility—it happens here each and every day. We truly care about our students and each other.

On behalf of our faculty, staff and administrators, I want to thank you for considering Green River College as your educational partner and your pathway to a bright future. We look forward to working with you each step of the way.

Best wishes for success with your college plans and your personal goals!

Dr. Eileen Ely

## GREEN RIVER COLLEGE BOARD OF TRUSTEES

The Board of Trustees for Green River College is composed of influential community members who reside within the college's service area. Trustees are volunteers serving a five-year term by appointment of the Governor.

Trustees bring a rich diversity of backgrounds and skills to the governance of Green River College. They serve as an important communication link between the college and the community. All trustees sit as members of the Trustees Association of Community and Technical Colleges. This association is comprised of trustees from the 34 community and technical colleges statewide.

The Green River Board of Trustees meets every third Thursday of the month on campus in the board room of the Administration Building. These monthly meetings are open to the public.

To learn more about the Green River Board of Trustees, visit:  
[greenriver.edu/about-us/president-ely/board-of-trustees.htm](http://greenriver.edu/about-us/president-ely/board-of-trustees.htm).



**MARK ALBERTSON**



**TIM CLARK**



**LINDA COWAN**



**CLAUDIA KAUFFMAN**



**PETE LEWIS**

## ABOUT GREEN RIVER COLLEGE

Green River College is a public two-year college where students from all over the world come together to learn, grow and enrich their lives. Green River's main campus, founded in Auburn's Lea Hill neighborhood in 1965, stretches over 180 acres of beautifully forested land. Branch campuses, located in downtown Auburn, Kent and Enumclaw, bring the college's unique educational experiences to local communities. The median age of Green River students is 22. More than 10,000 students, both full and part-time, attend Green River annually.

At Green River, students can choose from a wide variety of transfer degrees to four-year colleges and universities, more than 40 professional and technical programs, pre-college and basic skills and continuing education programs. Top transfer programs include business, engineering and liberal arts, as well as offering a wide variety of other majors in sciences, humanities and social sciences.

Green River has its own student housing complex. Students enjoy a convenient, on-campus location with comfortable, high quality facilities, an excellent study environment, and an opportunity to get involved and make friends in a supportive community.

Students at Green River are encouraged to get involved and fully engage in the college experience. Many student clubs and organizations are available including musical, athletic, cultural, educational and degree-specific opportunities like the college's newspaper *The Current* and broadcasting on our student-operated radio stations KGRG and KGRG.1.

Strong academics, solid student services, a diverse and lively campus community and state-of-the-art facilities combine at Green River to provide students a one-of-kind education with lessons that will stay with them throughout their lives.

## VISION, MISSION THEMES

*As reaffirmed by the Board of Trustees  
March 26, 2013.*

### VISION

#### The vision for Green River College for 2020 is:

To be ranked among the very best in student completion and success and be an invaluable community partner and asset with robust and diverse revenue streams.

### MISSION

#### The mission of Green River College is to:

Ensure student success through comprehensive educational programs and support services responsive to our diverse communities.

## CORE THEMES

Green River's mission recognizes the college's commitment to instruction and the success of all students regardless of their skill levels and education goals. The college has identified four core themes to further define the mission which are used to assess institutional effectiveness.

- **Career and Technical Education** – We train learners for professional and technical career readiness, transitions and advancement.
- **College Transfer** – We provide programs and services to ready students for transition to and success in future degree programs.
- **College Readiness** – We offer pre-college programs and services to equip learners for successful transition to college.
- **Continuing and Community Education** – We demonstrate ongoing commitment to the professional, social and personal enrichment needs of our community.

## PURPOSE

Green River provides learning opportunities for the residents of Washington and operates in accordance with the state of Washington's Community College Act of 1967.

## ROLE, SCOPE AND VALUES

### ROLE AND SCOPE

Green River offers courses and programs leading to a variety of associate and bachelor of applied science degrees, certificates and diplomas in career and technical fields and academic transfer. The college also offers customized training, developmental and basic skills programs, as well as a variety of noncredit activities and courses for personal enrichment. Students can choose to enroll at the main campus in Auburn, or one of the three branch campuses located in downtown Auburn, Kent and Enumclaw. Green River also offers a variety of support services to currently enrolled and prospective students to increase their chances for success.

### CORE VALUES

We, the faculty, staff, administration and Board of Trustees of Green River, embrace the following values and beliefs:

- **Student success** – We support student engagement, retention, completion and post-program success through excellent teaching and learning and comprehensive support services.
- **High quality** – We provide high quality in teaching, learning and support services in an environment of compassion and integrity.
- **Student access** – We meet student needs for access to and inclusion in their educational pursuits.

- **Community engagement** – We collaborate, stimulate and contribute to the educational, economic and social development of our external and internal communities through continued learning.
- **Equity** – We encourage, foster respect for and respond equitably to diverse perspectives and needs.
- **Global awareness** – We foster citizen responsibility by cultivating a global perspective on critical issues and challenges affecting our community and the world.
- **Stewardship** – We strive to maintain sound financial management, increase effective and efficient operations, develop state-of-the-art infrastructure (to include staffing, technology and facilities), and be forthcoming and transparent in accountability for resource use.
- **Innovation** – We seek to encourage, create and adopt innovative perspectives, policies and practices that will help achieve the college's mission.
- **Campus environment** – We preserve the safety, ecology and sustainability of our campus environment.

## ACCREDITATION

Green River College is accredited by the Northwest Commission on Colleges and Universities, an institutional accrediting body recognized by the Council for Higher Education Accreditation and/or the U.S. Department of Education. Green River's accreditation was reaffirmed in 2013.

**Northwest Commission on Colleges and Universities**  
8060 165th Avenue NE, Suite 100  
Redmond, Washington 98052-3981

In addition to the institution being accredited, several Career and Technical Education Programs have earned special accreditation or recognition in their field of specialty.

### SPECIALIZED PROGRAM ACCREDITATION

The Practical Nursing Program is approved by the Washington State Department of Health's Nursing Care Quality Assurance Commission.

The Occupational Therapy Assistant Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) recognized by the U.S. Department of Education and the Council for Higher Education Accreditation.

The Physical Therapist Assistant Program is accredited by the Commission on Accreditation of Physical Therapy Education (CAPTE) recognized by the U.S. Department of Education and the Council for Higher Education Accreditation.

The Natural Resources program is accredited by the Society of American Foresters, a specialized accrediting body recognized by the Council for Higher Education Accreditation.

## STUDENT LEARNING OUTCOMES

Green River College is committed to the continuous improvement of teaching and learning. In order to assess the effectiveness of its instructional programs, the college evaluates student achievement of published learning outcomes. Although the expected learning outcomes vary from program to program, all students completing a degree are expected to demonstrate mastery of four campus-wide outcomes: written communication, critical thinking, responsibility, and quantitative and symbolic reasoning. Additionally students planning to transfer to a four-year institution are expected to master the oral communication learning outcome and students completing applied degree programs (AAA, AAS, and AD) are expected to master the human relations learning outcome. See 'learning outcomes' in 'Academic Information' to learn more.

## STUDENT CODE OF CONDUCT/STUDENT RIGHTS AND RESPONSIBILITIES

Admission to Green River College carries with it the presumption that the student is a member of the college community. As a member of the college community one will engage in responsible conduct that models good citizenship.

The Student Code of Conduct identifies the rights that are guaranteed to individual students and the responsibilities of students in our college community according to state law and college policy. The provisions of the code apply to all students whenever they are on campus or engaged in any college-sponsored activity or function.

To review the Student Code of Conduct, please visit [greenriver.edu/student-affairs/judicial-programs.htm](http://greenriver.edu/student-affairs/judicial-programs.htm).

Green River College places the highest priority on the needs and success of all of its students. We offer a variety of resources to assist students while attaining their academic and professional goals. We encourage students to take advantage of the many resources available to them. Please find a list of student services below with a web link to access additional information about each resource.

## STUDENT RESOURCES

### ASSESSMENT AND TESTING CENTER

Zgolinski Welcome Center  
(253) 833-9111, ext. 2650  
[greenriver.edu/AssessmentTesting](http://greenriver.edu/AssessmentTesting)

The Assessment & Testing Center offers many services for future and current students, as well as for community members. Please visit our website for more details on each type of testing we offer.

### High School Equivalency Test

Is available in the form of GED® Testing.

### Instuctional Testing

Is available for current students in certain classes.

### Non-Green River Test Proctoring

Is available for individuals attending other institutions, as well as certifications and other employment tests for agencies.

### Course Placement Testing

Includes the COMPASS assessment, WAMAP math entrance exam, and spelling test.

### Program Entry Testing

Is available for our selective admissions programs.

### THE PAPERTREE BOOKSTORE

Mel Lindbloom Student Union  
253-931-3961  
[greenriver.edu/bookstore](http://greenriver.edu/bookstore)

The Paper Tree bookstore is located on the first floor of the Mel Lindbloom Student Union. Students can purchase textbooks, art and engineering supplies, computer software, greeting cards, college sweatshirts and more. The Paper Tree now has a small convenience store. The Paper Tree also offers movie rentals, fax services, lamination services and shipping services. Students can order their books and supplies online at: [greenriver.edu/bookstore](http://greenriver.edu/bookstore).

The Paper Tree is open Monday through Thursday from 7:45 a.m. to 7:00 p.m. and Friday 7:45 a.m. to 4:00 p.m. Hours vary during the summer quarter and can be found on our website.

Refunds on textbooks are made the first 15 business days of each quarter, except summer quarter. Receipts are required for any refund or exchange.

### DAILY GRIND

Mel Lindbloom Student Union

Need a quick cup of coffee, tea or a snack on your way to class? Want a cozy spot to study, meet with your friends or enjoy a warm fire? Come to the café where you can get your fill of food, drinks and comfort before, after or between your classes.

### CAMPUS LIFE

Mel Lindbloom Student Union  
[greenriver.edu/campus-life](http://greenriver.edu/campus-life)

Campus Life offers a variety of student-centered programs, events and resources, including the Community Leadership, Education and Outreach (CLEO) student leadership program, The Commencement Achievement Program (CAP) peer navigator program, ASGRC student government, clubs, lectures, musical entertainment, diversity education and other opportunities to engage to life outside of the classroom, to the student body.

### CAMPUS SAFETY

Administration Building, Room 28  
(253) 833-9111, ext. 3350  
[greenriver.edu/safety](http://greenriver.edu/safety)

The goal of Campus Safety is to enhance the quality of campus life through the creation of a safe and secure environment for faculty, staff, students, and campus visitors to pursue a positive work and educational experience. This is accomplished by establishing a partnership with the College community and our local partners that encourages mutual understanding, cooperation, and a fundamental desire to develop problem-solving strategies to address the issues of safety and emergency preparedness. These strategies include the Emergency Operations Center (EOC), our "Red Flag" campus reporting system and our emergency notification system known as E2Campus.

Campus Safety assists with emergency aid and parking lot patrol, takes the lead in campus-related crime prevention and investigations, performs security checks of college buildings, as well as overseeing after-hours facility access. Campus Safety will also render assistance to jump-start vehicles, help with locked vehicles, and escort people to their vehicles as requested.

### CAREER AND ADVISING CENTER

Student Affairs and Success Building  
(253) 833-9111, ext. 2641  
[greenriver.edu/CareerAdvising](http://greenriver.edu/CareerAdvising)

The Career and Advising Center's staff offers comprehensive career and educational planning resources for current and prospective students, alumni, and community members.



## CHILD DEVELOPMENT CENTER

31715 124th Ave. SE  
 Auburn, WA 98092-3622  
 (253) 939-7400  
[greenriver.edu/childcare](http://greenriver.edu/childcare)

Green River's Child Development Center welcomes children ages six weeks to five years. The Children's Home Society of Washington operates the center, which can serve 64 children in its five classrooms. Childcare subsidies are accepted and scholarship assistance is available.

## CONFERENCE SERVICES

Mel Lindbloom Student Union  
 (253) 333-6010  
[greenriver.edu/conference](http://greenriver.edu/conference)

Conference Services provides meeting and event support to the Green River College campus community and off-campus constituents. Our dedicated staff provides comprehensive and cost-effective planning services which include room reservations, banquet facilities, catering arrangements and audio-visual technology.

## CONTINUING AND COMMUNITY EDUCATION

Continuing and Community Education Office  
 WT Building, Room WT1  
 (253) 833-9111, ext. 2535  
[greenriver.edu/cce](http://greenriver.edu/cce)

Continuing and Community Education promotes continuous learning by providing a wide range of high quality, short-term courses in the areas of professional and technical continuing education, small business counseling, personal exploration and cultural enrichment.

Whether your passion is oil painting, your immediate need is financial planning, or you need to update skills to get back in the workforce, we offer classes that help you get where you want to go. Additionally we work closely with local employers to offer a variety of customized training opportunities to help businesses hire and retain a highly skilled workforce. Green River College is also the home to the Washington Environmental Training Center, which provides statewide training in Water and Wastewater Operator professional growth and certification. Prime Time Institute is our mature learners program offering trips and short daytime classes at various college locations.

Continuing and Community Education classes are generally non-credit and self-supporting. Classes are featured in the Green River quarterly class schedule as well as in the Continuing and Community Educating class schedule. These classes are financed by student participation fees and not by state tax funds. Any person 18 years of age or older may enroll in Continuing and Community Education classes by completing registration and paying the class fee. Students will not be required to complete college admission procedures.

## COUNSELING AND HEALTH SERVICES

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

### COUNSELING

Student Affairs and Success Building  
 (253) 833-9111, ext. 2460

Short-term personal mental health counseling that focuses on personal growth and the development of coping skills related to a variety of concerns is available in the Counseling Office.

### HEALTH SERVICES

Student Affairs and Success Building  
 (253) 833-9111, ext. 2430

The Health Services Prevention Education staff provides programs that educate the campus about sexual health, fitness, nutrition, alcohol, drugs, and more.

## THE CURRENT (STUDENT NEWSPAPER)

(253) 833-9111, ext. 2375  
[greenriver.edu/campus-life/the-current.htm](http://greenriver.edu/campus-life/the-current.htm)

The Current is the online and print resource published by and for students during the regular school year. It helps inform students about important issues and activities, and provides students hands-on experience in newspaper and website production.

## DISABILITY SUPPORT SERVICES

Student Affairs and Success Building  
 (253) 833-9111, ext. 2631  
 TDD: (253) 288-3359  
[greenriver.edu/dss](http://greenriver.edu/dss)

Green River is committed to providing equal access to all college programs and activities. Disability Support Services offers accommodation-access services on a case-by-case basis to qualified students with documented disabilities. To receive this information in alternative format please contact Disability Support Services at (253) 833-9111, ext. 2631.

## DIVERSITY, EQUITY & INCLUSION

Mel Lindbloom Student Union  
 Campus Life Office  
 (253) 833-9111, ext. 2403  
[greenriver.edu/diversity](http://greenriver.edu/diversity)

The Office of Diversity, Equity and Inclusion offers culturally competent bilingual services to recruit and retain diverse individuals from under-represented populations. We educate and empower the College to value social justice and develop high quality conferences and leadership organizations that enhance student success and community engagement.

## ENROLLMENT SERVICES

Student Affairs and Success Building  
 (253) 833-9111, ext. 2500  
[greenriver.edu/enrollment](http://greenriver.edu/enrollment)

Enrollment Services is a comprehensive department that supports students in applying for admission, registering for classes and maintaining accurate and secure student records. Enrollment Services also provides services related to student transcripts and graduation.

## FINANCIAL AID

Student Affairs and Success Building  
 (253) 833-9111, ext. 2449  
<http://www.greenriver.edu/financialaid>

Financial assistance from grants, scholarships, loans and work-study programs is available to help cover college costs. Students receiving money from external agencies must submit their paperwork to Financial Aid for assistance with tuition and book vouchers.

## FOOD SERVICE

Mel Lindbloom Student Union  
 (253) 833-9111, ext. 3366  
[greenriver.edu/campus-life/food-services.htm](http://greenriver.edu/campus-life/food-services.htm)

Conveniently situated on the first floor in the Lindbloom Student Union, the Gator Grille offers a variety of food service options – from hot lunch specials, burgers, sandwiches and salads to hot and cold beverages, and pastries. In addition, there are two espresso stands on campus. One is in the Student Union and the other is in the Technology Center.

### HOUSING

**Campus Corner Apartments—On campus**  
(253) 876-0700  
[greenriver.edu/housing](http://greenriver.edu/housing)

Student apartments are conveniently located on-campus for Green River students. This fully-functional residence life program includes apartments with four private bedrooms, a kitchen and living room.

### Off campus

**Mel Lindbloom Student Union**  
(253) 833-9111, ext. 2400

A housing information list that contains ads for rooms to rent and roommates wanted is maintained in Campus Life.

### INSURANCE

#### CASHIER'S OFFICE

**Student Affairs and Success Building**  
(253) 833-9111, ext. 2050

Green River College offers a Student Accident and Sickness Insurance Plan. Students are eligible if they are a regularly enrolled student registered for six or more credits per quarter.

### INTERCOLLEGIATE ATHLETICS

**Mel Lindbloom Student Union**  
(253) 833-9111, ext. 2481  
[greenriver.edu/athletics](http://greenriver.edu/athletics)

Green River College is a member of the Northwest Athletic Conference. Student athletes compete in the following NWAC championship sports: Men's and Women's Cross Country and Track, Women's Soccer, Volleyball, Men's and Women's Basketball, Baseball, Fastpitch Softball, and Men's and Women's Golf. The college also sponsors a cheer-dance team during the winter season.

### INTERNATIONAL PROGRAMS

**International Village, Building D**  
(253) 833-9111, ext. 3300  
[greenriver.edu/international](http://greenriver.edu/international)

The International Programs office staff offers a variety of services, such as international admissions, orientation, assistance with immigration issues, academic, cultural and individual university transfer advising, housing assistance, and help getting involved on campus.

### INTERURBAN CENTER FOR THE ARTS

(253) 833-9111, ext. 2735

The Interurban Center for the Arts is a division of Green River College Foundation. It is a community outreach arts program intended to introduce elementary school children and their parents to the arts. The program serves 35 area elementary schools with its visual arts program.

### JUDICIAL PROGRAMS

**Student Affairs and Success Building**  
(253) 833-9111, ext. 3397  
[greenriver.edu/student-affairs/judicial-programs.htm](http://greenriver.edu/student-affairs/judicial-programs.htm)

The Judicial Affairs Department maintains and administers the student code of conduct. The department strives to engage our students to become civic minded citizens who positively contribute to society and achieve their educational goals. The department also seeks to educate students about their rights, responsibilities and expectations as members of the Green River Community while providing a fair and educational process in adjudicating the code of conduct. Judicial Affairs also offers workshops and presentations on the judicial process of the college, community standards, and other issues related to the Student Code of Conduct for faculty, staff, and students.

### 89.9 KGRG-FM AND KGRG 1330 AM

**Student Affairs and Success Building**  
(253) 833-911, ext. 2188

KGRG FM and AM are radio stations owned by Green River College and the Green River Foundation respectively. The stations are operated by students in the radio broadcast program.

### LIBRARY

**Holman Library**  
(253) 833-9111, ext. 2090  
[greenriver.edu/library](http://greenriver.edu/library)

The Holman Library building is a 60,000 square-foot information and technology center. It houses the college library, an open computer lab, instructional classroom space, an art gallery, and media services for faculty.

### MATH LEARNING CENTER

**Cedar Hall, Room 313**  
(253) 833-9111, ext. 4498  
[greenriver.edu/student-affairs/tutoring-and-resources/math-learning-center.htm](http://greenriver.edu/student-affairs/tutoring-and-resources/math-learning-center.htm)

The Math Learning Center provides free drop-in tutorial assistance to students in math courses, as well as a variety of other resources including math DVD's, an instructional network of computers with some math related software, and access to current math textbooks. The MLC also offers quarterly graphing calculator rentals.

### OTHER CAMPUS LOCATIONS

#### Kent Campus

**417 Ramsay Way, Suite 112, Kent, WA 98032**  
(253) 856-9595  
[greenriver.edu/kent](http://greenriver.edu/kent)

Kent Campus offers many of the same services and programs as the main campus, as well as a wide variety of non-credit, business and contract training programs. Kent Campus is located at Kent Station, offering a unique study environment, with great restaurants, coffee shops, and retail shops nearby. This campus is close to the Kent Library, King County Regional Justice Center, Sound Transit Commuter Train and bus station, and Highway 167.

#### Enumclaw Campus

**1414 Griffin Ave, Enumclaw, WA 98022**  
(253) 288-3400, ext. 3400 or (360) 829-2450  
[greenriver.edu/enumclaw](http://greenriver.edu/enumclaw)

The Enumclaw Campus offers a personalized environment to students seeking degrees or personal enrichment and to businesses that send employees for business training. Enumclaw Campus also offers many of the same services and programs as the main campus, such as student orientations, registration, advising, and placement testing at various times throughout the quarter.

#### Small Business Assistance Center

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

#### Enumclaw

**1414 Griffin Ave, Enumclaw, WA 98022**  
(253) 288-3400

#### Kent

**417 Ramsay Way, Suite 112, Kent, WA 98032**  
(253) 520-6260

The Green River Small Business Assistance Center provides technical assistance to small businesses in the South King County area. Individual counseling sessions provided by certified business advisors offer business owners the chance to tackle and solve new business challenges. In addition, assessment, referrals and small business class training sessions are offered to meet the needs of local businesses.

**PARKING**

**Campus Safety**  
**Administration Building**  
**(253) 833-9111, ext. 3350**  
[greenriver.edu/transportation](http://greenriver.edu/transportation)

Students, staff and faculty are strongly encouraged to register their cars with Campus Safety to provide timely contact information in the event of an emergency involving their vehicle. Americans with Disabilities Act (ADA) compliant parking is available for vehicles with state-issued disability hang tags or license plates. The college has designated parking spaces for carpool, motorcycles, students and staff. Additional free parking is available at Pacific Raceways and the Grace Lutheran church. Students are encouraged to use the Shuttle bus program. Shuttle buses run from 7:30 a.m. to 5 p.m. daily Pacific Raceways to the Holman Library and back during instructional contract days during fall, winter and spring quarters. Shuttle service is not available for the summer academic quarter. Shuttles run approximately every fifteen minutes throughout the day and are available to any student, staff or faculty member.

**PERFORMING ARTS**

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

The college is home to the Green River Jazz Voices and two theater groups. The college's theatre program offers a play or musical each quarter with a student cast, and the college's resident community theater group, the Heavier than Air Family Theatre Company, puts on family-friendly productions at various times of the year. For ticket information, call Campus Life at (253) 833-9111 ext. 2400.

**RECREATION AND ATHLETICS CENTER**

**Mel Lindbloom Student Union**  
**(253) 833-9111 ext.2481**

The RAC located in the Lindbloom Student Union allows students open access to aerobic, strength and fitness equipment during posted hours. Student intramural events such as basketball, volleyball, badminton, and indoor soccer are offered in the RAC gymnasium. Students with a Green River College ID can also check out athletic equipment to use in the facility during open gym hours. Club Sport and Intercollegiate Varsity sport opportunities are also organized by the RAC staff.

**RUNNING START PROGRAM**

**Student Affairs and Success Building**  
**(253) 833-9111, ext. 2643**  
[greenriver.edu/RunningStart](http://greenriver.edu/RunningStart)

Running Start is a program that allows eligible high school juniors and seniors enrolled through a public high school or district the opportunity to earn college credit at a significantly reduced cost. For more information, see Running Start in the Academic Information Section.

**STUDENT HANDBOOK**

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

The college produces an annual student handbook which is available at the Campus Life Information Center. The handbook explains current student services, college and academic resources, as well as policies and procedures.

**STUDENT LIFE**

**Mel Lindbloom Student Union**  
**Campus Life Office**  
**(253) 833-9111, ext 2400**

Here in Student Life, we recognize that lifelong connections are formed both inside and outside the classroom. We program activities and events that will provide opportunities to connect to your community at Green River, as well as the greater King County area.

**TECHNOLOGY CENTER**

The Technology Center is an active place on campus with an Espresso Café on the main level where students gather to study and interact. There are computer equipped classrooms throughout this building with a quiet study lab on the second floor which has over 120 computers, a plotter, 1 color and 3 black ink printers, scanners and several group study areas. This building is home to the Aviation and IT programs.

**TRANSPORTATION**

**(253) 833-9111, ext. 2566**  
[greenriver.edu/transportation](http://greenriver.edu/transportation)

Green River participates in the Washington Commute Trip Reduction Program (Chapter 468-63 WAC). Students are encouraged to ride the bus or carpool to campus. Bus route 164 runs from downtown Kent to the East Hill on its way to Green River. Bus route 181 runs from Federal Way through downtown Auburn to Green River. Carpools are encouraged with financial incentives, as well as guaranteed parking on a pay by the day or by the quarter basis.

The Safety Ride Program provides marked vans that will transport persons to and from campus to local businesses within the Green River area at night as a safer alternative to walking. The Safety Ride Program is available to any Green River Student, staff or faculty member within the ride service area.

**TRIO STUDENT SUPPORT SERVICES**

**Student Affairs and Success Building**  
**(253) 833-9111, ext. 2655**  
[greenriver.edu/trio](http://greenriver.edu/trio)

TRiO is a federally-funded program offering intensive support for qualified students who are in a degree program of study and who intend to graduate and transfer to four-year institutions. TRiO provides individualized assistance for its participants who may need additional support adjusting to college culture, transfer advising, or extra academic help in core classes.

**TUTORING AND RESOURCE CENTER**

**Holman Library**  
**(253) 833-9111, ext. 2658**  
[greenriver.edu/trc](http://greenriver.edu/trc)

Students who need help keeping up with their classes can receive free tutoring at the Tutoring and Resource Center. Faculty-approved tutors provide assistance with all subject areas except math. See Math Learning Center on page 10.

**VETERAN SERVICES**

**Student Affairs and Success Building**  
**(253) 833-9111, ext. 2466**  
[greenriver.edu/veterans](http://greenriver.edu/veterans)

Veteran Services assists all student veterans at Green River College. Students are welcome to visit our Veterans Resource Center (LC 130) for a quick coffee break, or to find out more information about available resources. Any student collecting VA education benefits can access our VA education benefit specialists (LC 236) for questions and/or assistance.

**WELCOME CENTER**

**Zgolinski Welcome Center**  
**(253) 833-9111, ext. 6000**  
[greenriver.edu/WelcomeCenter](http://greenriver.edu/WelcomeCenter)

The Welcome Center staff provides new and prospective students and the greater community with general campus information, campus tours, referrals to other campus services, assistance with the admissions process, and entry advising services.

**WRITING CENTER**

**Rutkowski Learning Center, Room 173**  
**(253) 833-9111, ext. 2166**  
[greenriver.edu/wc](http://greenriver.edu/wc)

The Writing Center offers one-on-one consulting services for students at all stages of the writing process with assistance from faculty and student tutors. Though the Center cannot guarantee you error-free papers, they can help you to improve in the areas you choose to work on.

*For more information on all of Green River's Student Affairs, please visit [greenriver.edu/resources/index.shtm](http://greenriver.edu/resources/index.shtm).*

**NOTES**

About the nature trail



The Green River Nature Trail, which highlights the beautiful natural environment of Green River Community College, is the creation of Tom Trindl. Tom, the college's lead gardener, was often asked about the special and rare plants which grow on the campus. Because he didn't have time to give

these questions the responses he felt they deserved, he proposed the creation of the trail.

After receiving support from college faculty (including those in forestry, biology, recreation and geography), Tom sought help from Green River Foundation, which provided funding for posts and the printing of a trail guide. Tom, his wife Lynne and a few others devoted more than 100 volunteer hours to stain, paint and place the posts which mark 50 plants and trees that line the path around the campus. They also researched and prepared the trail guide.

Please enjoy the trail they created.

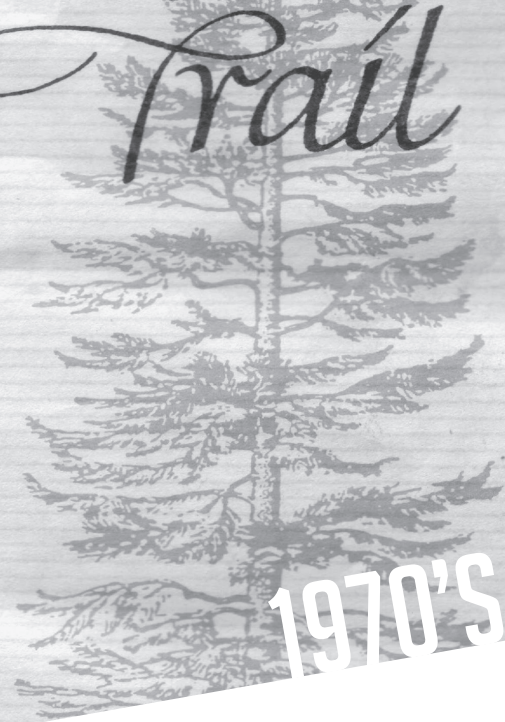
Green River Foundation

Green River Foundation is dedicated to providing support for projects and programs which enhance Green River Community College and the interurban area. This non-profit organization was established in 1975 to enrich opportunities at the college and to improve the quality of life in the communities it serves.

Through the dedication of volunteers and the generosity of individuals and businesses, the foundation enables the college to maintain the edge for excellence in education, athletics, the arts and cultural programs. The foundation supports scholarship and faculty

GREEN RIVER COMMUNITY COLLEGE

Green River Nature Trail



1970'S

See inside for a self-guided

# Get Started

Apply • Placement • Money for College • Advising & Registration



# Get started at Green River

1



## Determine your funding

- Find all options for funding your education at [greenriver.edu/moneyforcollege](http://greenriver.edu/moneyforcollege), including the STEP payment plan, Veterans benefits, and Workforce Education.
- **Financial aid priority deadlines:** fall (March 15); winter (October 15); spring (January 15); summer (April 15)  
A complete application requires:
  - FAFSA; fill it out online at [fafsa.gov](http://fafsa.gov). Green River's school code is **003780**.
  - Green River's Financial Aid Supplemental Application; available at [greenriver.edu/financialaid](http://greenriver.edu/financialaid).
- Questions? Contact Financial Aid at (253) 833-9111, Ext. 2449 or [finaid@greenriver.edu](mailto:finaid@greenriver.edu).

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## Admission

- Apply for admission online at [greenriver.edu/applynow](http://greenriver.edu/applynow)
- Pay the \$20 nonrefundable application fee with tuition.
- Activate your required student email account at [greenriver.edu/studentemail](http://greenriver.edu/studentemail). **All Green River communication will be sent to your Green River student email account.**
- Questions? Contact Enrollment Services at (253) 833-9111, Ext. 2500 or [enrollmentservices@greenriver.edu](mailto:enrollmentservices@greenriver.edu).

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## Determine your course placement

- Most courses require an assessment of a student's skill level in reading, writing and math to ensure students are prepared to successfully complete the course.
- Course placement can be determined through various means; visit [greenriver.edu/placement](http://greenriver.edu/placement) for more information.
- Questions? Contact the Welcome Center at (253) 333-6000 or [gettingstarted@greenriver.edu](mailto:gettingstarted@greenriver.edu).

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## Complete advising and registration

- All students new to Green River must complete Student Orientation to Advising and Registration (SOAR). SOAR sessions are available in-person and online; visit [greenriver.edu/soar](http://greenriver.edu/soar) for more information and to sign up.
- Questions? Contact the Welcome Center at (253) 333-6000 or [gettingstarted@greenriver.edu](mailto:gettingstarted@greenriver.edu).

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## Confirm online

- View your schedule to confirm your official registration record.
- Remove yourself from any unwanted class waitlists.
- Confirm tuition and fees are paid in full OR your funding source is in place.
- Check your Green River student email on a **regular** basis.

Green River College does not discriminate on the basis of race, creed, color, national origin, sex, sexual orientation, age, marital status, religion, disability, genetic information or on any other unlawful basis. The college is committed to preventing and stopping discrimination, including harassment of any kind and any associated retaliatory behavior. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President of Human Resources, 12401 SE 320th Street, Auburn, WA 98092-3622, (253) 288-3320. To receive this information in an alternate format, please contact Disability Support Services at (253) 833-9111, ext. 2631; TTY (253) 288-3359.

WC1508wb GetStarted

## GET STARTED



### APPLY

#### Who Can Apply?

Admission to the college is open to anyone who has a high school diploma, High School Equivalency Certificate, or is at least 18 years old. Green River welcomes people of all income levels, backgrounds and previous educational experience. Students who do not meet these requirements should see the Age Exception policy in the Academic Information section of this catalog.

#### When Should You Apply?

Students who plan to start classes fall quarter may apply any time beginning Dec. 1 of the preceding year. Students who complete the entry process first, get to register first, so applying early is an advantage. Students who plan to begin their studies winter, spring or summer quarter may apply any time prior to the beginning of that quarter.

Students may begin most programs any quarter, but some career/technical programs begin fall quarter only. See area of interest in the Programs of Study section of this catalog to determine program entry times.

#### How Do You Apply?

Students may apply for admission (\$20 non-refundable application fee required):

- Online at [greenriver.edu](http://greenriver.edu)
- In person at the Welcome Center

After the college has processed the application, students will be e-mailed an acceptance letter to their Green River e-mail account within two business days of receiving their student identification number (SID). The letter or email will include their student identification number and important informational links guiding you through the getting started process.

#### Application for Readmission

Students, who have not attended Green River for at least one quarter, may reapply online, at the Welcome Center, or by calling Enrollment Services. Once their record has been updated, they will be assigned a registration time two weeks prior to the start of the quarter. Only students who have earned credit at Green River in the past are eligible to register as returning students.

### Health Sciences Special Admission Requirements

Practical Nursing, Nurse Assistant Certificate, Occupational Therapy Assistant and Physical Therapist Assistant programs have special admission requirements to ensure student success. Students need to refer to the Programs of Study section in this catalog for individual program requirements. For more information, contact the Career and Advising Center at ext. 2641.

The Health Sciences programs comply with the "Child/Adult Abuse Information Act," RCW 43.43.830-43.43.840. Each Health Sciences student is required to submit to a background investigation for criminal history information prior to entry into the program.

### International Students

#### Admissions

Qualified international students are admitted to Green River College each of the four academic quarters. International student applicants should submit an international application form no later than five to six weeks prior to the beginning of the academic quarter for which they want admission to the college. (See the calendar on the inside front cover for quarter dates.) The admissions process must be completed before the International Programs office will issue the Certificate of Eligibility Form I-20.

On the basis of their educational background and knowledge of the English language, international students may be admitted either to the college's academic or career/technical programs or to the Intensive English program.

#### Second Language Program (IESL)

##### Application Requirements

- Must be a high school graduate or at least 16 years of age;
- Complete an international application for admission and submit it to Green River's International Programs office;
- Send a \$50 application fee;
- Submit one of the following as a statement of financial support for one full year of study in the United States:
  1. Personal or family sponsored: Bank statement, certification of wages, or similar statement of financial resources
  2. Government or company scholarship: Official sponsorship letter
  3. Sponsor living in the United States; Notarized I-134 sponsorship document

### Transfer-In Students

Admission of students transferring from other colleges is regulated by the same academic standards that apply to other Green River students. Transfer students are required to indicate all previous college work when they complete the application process.

Students transferring credits from other institutions and those who have military experience or advanced placement credit must provide the Enrollment Services Office with official transcripts in a sealed envelope, along with a transcript evaluation request form.

Records become the property of Green River and will not be returned to students. Students will be notified by e-mail that their transcript evaluation has been completed. This correspondence will become part of the student's official record.

It is to the incoming student's advantage to request a transcript evaluation as early as possible. Registration access times at Green River are calculated on a credit-earned basis. Evaluated (accepted) credits will be used to assign an earlier registration access time after students have attended their first quarter at Green River. A transcript evaluation must be completed by the credentials evaluator prior to the next quarter's registration in order for students to get an earlier registration access time.

### Student E-mail Addresses

Students are automatically assigned a Green River e-mail account. The college will use this e-mail address for official communication with all students. Official college policy requires every student to read his or her Green River e-mail account regularly. Students may set up their accounts by visiting [greenriver.edu/StudentEmail](http://greenriver.edu/StudentEmail) and following the instructions listed.



### PLACEMENT

Most courses require an assessment of a student's skill level in reading, writing and/or math to ensure students are prepared to successfully complete the course. Placement in reading, English, and math courses can be determined through various means including: the COMPASS assessment, high school transcripts, college transcripts, WAMAP math entrance exam, Advanced Placement (AP), International Baccalaureate (IB), and the placement reciprocity process.

For more detailed information and eligibility requirements for each placement option, please visit [greenriver.edu/placement.htm](http://greenriver.edu/placement.htm). Questions regarding student placement should be directed to the Welcome Center at (253) 333-6000 or [gettingstarted@greenriver.edu](mailto:gettingstarted@greenriver.edu).

### COMPASS Assessment

COMPASS assessment the first step for many new students to determine course eligibility. There is a fee of \$10 per section (reading and math) payable at the time of the COMPASS assessment. It is available on a drop-in basis at the Welcome Center or by appointment at the Enumclaw and Kent campuses. For more information visit [greenriver.edu/testing](http://greenriver.edu/testing) or call the Assessment and Testing Center at (253) 833-9111 ext. 2650.

### High School Transcripts

Recent graduates from specific school districts may be eligible to use high school transcripts for placement in math, English and other courses. Unofficial transcripts may be used for placement purposes.

### College Transcripts

Students who have previously completed courses at another college or university may be eligible to use those transcripts for placement into a variety of courses. Unofficial transcripts that include the student's name and name of institution may be used for placement purposes at the Welcome Center; however official transcripts and submission of a Transcript Evaluation Request to Enrollment Services will be required for credits to be applied toward degree requirements.

### WAMAP Math Entrance Exam

Students may wish to place into a specific math class through an entrance exam. This computerized assessment utilizes the Washington Mathematics Assessment and Placement (WAMAP) system. WAMAP has a fee of \$10 per level and students are strongly encouraged to familiarize themselves with the system prior to attempting the exam.

### Advanced Placement (AP) and International Baccalaureate (IB) credits

Students who have taken the AP examination or earned IB credits in certain subjects may be able to use those for placement. (See Advanced Placement table and International Baccalaureate table in the academic information section for more information.)

### Placement Reciprocity Policy

A student who qualifies for a specific level of pre-college math, English or reading, either through course completion or local skills assessment, will have that course placement level honored at another Washington CTC if the student so requests, even if the courses may not be exact equivalents. A student who qualifies for entry into college-level math, English, or reading, either through course completion or local skills assessment, will be considered to have met the entry college-level standard at every community and technical college. Students requesting reciprocity must initiate the process within one year of their placement assessment.

### Placement in Foreign Language Courses

Beginning students or those with one year or less of a high school language begin in foreign language courses numbered &121 unless otherwise placed by a foreign language instructor.

Students who have taken more than one year of a high school foreign language may be able to use their High School transcript for placement at the Welcome Center.

Students who have taken a college-level foreign language should continue the sequence.

Students transferring to a four-year institution should know the foreign language requirements at the school of their choice.



### MONEY FOR COLLEGE

If paying for college expenses is a concern, Green River offers multiple funding assistance programs. Green River's philosophy is that people should have the opportunity to achieve their educational goals, regardless of income. Grant, loan, work-study and agency funded programs may be available for those who qualify for assistance. For more information on funding options please visit [greenriver.edu/MoneyForCollege](http://greenriver.edu/MoneyForCollege).

<b>FINANCIAL AID PROGRAMS</b>	
<b>Grants/Programs</b>	<b>Brief Description</b>
Federal Pell Grant	A federal grant program for undergraduate students.
Federal Supplemental Educational Opportunity Grant	A federal grant program for undergraduate students.
Washington State Need Grant	A state grant program for undergraduate students.
State Tuition Waiver	A state program to cover tuition costs.
Federal Teach Grant	A federal grant program for students planning to teach. Becomes an unsubsidized loan if not teaching.
<b>Employment Programs</b>	
Federal Work-Study	A federal program to provide employment opportunities for students on or off campus.
State Work-Study	A state program to provide students employment opportunities for on or off campus.
<b>Loan Programs</b>	
Federal Direct Loan	A federal loan program with deferred repayment and fixed interest rates.
Federal Direct Plus Loan	A federal loan program for parents of dependent students with a fixed interest rate.
<b>Scholarships</b>	
Green River Foundation Scholarships	A variety of scholarships funded by the Green River Foundation.
<b>Agency Funded Programs</b>	
A variety of funding options are addressed on page 17	Many agency funded programs are available including, but not limited to, veteran's benefits and funding for low-income students.

\* Official college policy requires every student to read his or her Green River email account regularly. Students may set up their accounts by visiting [greenriver.edu/StudentEmail](http://greenriver.edu/StudentEmail) and following the instructions listed.



## How to Apply for Financial Aid

### Process

Students should complete the Free Application for Federal Student Aid (FAFSA) online at FAFSA.gov by March 15 to receive funding the following fall quarter. In addition, complete and return the Green River Supplemental Financial Aid Application and any other required documents to the Financial Aid Office by March 15. Applications completed after March 15 will be awarded only if funds remain available.

Students need to re-apply for financial aid each year.

Students will be notified of any financial aid award by mail. Award notifications will be mailed beginning in June and continue throughout the year. For more information, contact the Financial Aid Office.

Green River College does not discriminate on the basis of race, creed, color, national origin, sex, sexual orientation, age, marital status, religion, disability, genetic information or on any other unlawful basis. The college is committed to preventing and stopping discrimination, including harassment of any kind and any associated retaliatory behavior.

### Eligibility

To be eligible for financial assistance through federal and state programs, a student must:

- Have a high school diploma or GED.
- Be enrolled in an eligible degree or certificate program.
- Be a U.S. citizen or national, or an eligible non-citizen.
- Meet satisfactory academic progress standards.
- Not owe a refund on any federal grant or be in default on a federal student loan.

- Register for selective service, if male and age 18 or older; and not recently convicted of possession or sale of a controlled substance (illegal drugs).

### Scholarships

The Green River College Foundation offers more than 200 scholarships to new and returning students each year. Scholarship criteria can range from areas such as talent, academics, career interest and program of study or leadership to a need basis or single parent status. In addition, the Financial Aid Office provides scholarship search resources, scholarship listings and applications from off-campus.

### Agency-Funded Programs

Students working with agencies such as Labor and Industries, Division of Vocational Rehabilitation, Workforce Training, Work Source, Trade Readjustment Act, Division of Rehabilitation-Veterans Chapter 31, or other agencies that are assisting in the funding of tuition, fees, books and supplies, should come to the Financial Aid Office to turn in paperwork and pick up tuition and book vouchers.

### Veteran's Benefits

Green River College is approved for Department of Veterans Affairs (VA) education benefits. Students who fit VA eligibility criteria may use their education benefits for most of our academic programs. An updated list of approved programs can be found on the VA's website.

In-state and/or reduced tuition rates may be available to veterans that meet specific state requirements. For more information please visit Enrollment Services with a copy of your DD 214.

Veterans may also be eligible for priority registration. Individuals must meet the established eligibility criteria and submit a copy of their DD 214 to Enrollment Services.

### WorkFirst Tuition Assistance

WorkFirst helps needy men and women learn job-specific skills so that they can earn a better living. Participants who qualify for WorkFirst can receive financial aid to pay for tuition, books, and fees.

### Opportunity Grant

The Opportunity Grant funds tuition, fees, and money for books for low-income students in specific, state-approved career paths, as well as for undecided students who begin their studies in one of the approved paths.

### Worker Retraining

Worker Retraining is a partnership of community and technical colleges and the Washington State Employment Security Department. It provides job training for both unemployed workers and those who face imminent layoffs.

With commissioner approval, Worker Retraining students can enroll in career/technical training, continue to draw the unemployment benefits to which they are entitled, and stop seeking work if it interferes with classes or studies. In addition, students who have been self-employed or consider themselves displaced homemakers may qualify for Worker Retraining assistance.

### Tuition Payment Plan

Our Student Tuition Easy Payment Plan (STEP) allows students to pay for their classes on an installment basis.

### College Costs

In estimating college costs, students will need to include amounts for tuition, special fees, books, supplies, transportation, and living expenses.

Textbooks and supplies can cost up to \$500 or more per quarter, depending on the program. Textbook prices are subject to change without notice.

<b>Tuition Rates</b> <i>Tuition and fees are subject to change by the Washington State Legislature.</i>	<b>Washington Resident</b>	<b>U.S. Citizen/Immigrant Non-Resident Waiver</b>	<b>International and Other Non-U.S. Citizen</b>
Per credit charge (1-10 credits)	\$102.75	\$115.94	\$278.84
Per credit charge (11-18 credits)	\$50.90	\$51.60	\$149.00
Per credit charge (19 credits and over), except as noted below for those who qualify.	\$92.17	\$105.40	\$268.26
Career/Technical surcharge for more than 18 credits (per credit)	\$50.90	\$51.60	\$58.00
* Veterans per credit charge (1-10 credits)	\$92.48	N/A	N/A
* Veterans per credit charge (11-18 credits)	\$50.90	N/A	N/A
* Veterans surcharge for more than 18 credits (per credit)	\$92.17	N/A	N/A
High School completion age 19 and over (per credit – up to 18 credits)	\$12.00	\$102.75	\$278.84
*See Enrollment Services Office for specific guidelines. Copy of DD214 required.  <b>NOTE:</b> Students auditing classes pay regular tuition and fees.		Non-Resident waiver–U.S. citizens and INS-approved permanent residents are eligible for this waiver while establishing their Washington state residency.  International and other–Visa classifications that are not eligible to establish residency, including international students.	

\* Official college policy requires every student to read his or her Green River email account regularly. Students may set up their accounts by visiting greenriver.edu/StudentEmail and following the instructions listed.

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### Tuition and Fees

Tuition and fees are set by the state legislature and are subject to change.

See the Tuition Rates chart below. Current tuition rates are published in the quarterly class schedule.

### Other Fees

A special services fee of 50 cents per credit is applied to all credits.

A technology fee of \$5 per credit to a maximum of 12 credits, not to exceed \$60. This fee was established by a student vote to cover the cost of equipment, printing, and tech support for the Technology Center.

A facilities fee of \$17.50 minimum for 1 to 5 credits, and \$3.50 per credit after 5 credits, no maximum.

A late fee of \$35 per class will be applied to all classes added after the 10th day of the quarter.

A student center fee of a flat \$45. This fee was established by a student vote to cover the cost of a new student center).

### Special fees (All fees are subject to change)

Admission Application fee	\$20
Placement Assessment	Varies
Compass	Up to \$20
WAMAP	\$10
Spelling	\$5

\*See [greenriver.edu/placement](https://greenriver.edu/placement) for all placement options

Cap and gown, tassel	\$24
Graduation application fee	\$20
Locker fee (refundable)	\$7.50
STEP	\$25
Transcript fee online	\$10
Transcript fee in person, on demand	\$25

### Special Courses

Parent-Child Education	\$20 per credit
Basic Skills	\$25 per quarter
Apprenticeship	\$53 per credit

### Student Financial Obligations

All outstanding amounts resulting from nonpayment of tuition and fees are the responsibility of the student. Withdrawal from school, officially or unofficially, will not cancel any financial obligation already incurred. Failure to pay all financial obligations may result in debts being turned over to a collection agency. Collection fees, including attorney fees and other charges necessary for the collection of any amount due, will be added to the student's account balance. Students who default on any financial obligations to Green River College are responsible for collection fees, attorney fees, court fees, and other reasonable costs and expenses incurred in the collection of any debt, in accordance with RCW 28B.10.293 and RCW 19.16.500.

\* Official college policy requires every student to read his or her Green River email account regularly. Students may set up their accounts by visiting [greenriver.edu/StudentEmail](https://greenriver.edu/StudentEmail) and following the instructions listed.



## ADVISING AND REGISTRATION

### ENTRY ADVISING

New students meet with a Getting Started Specialist in the Welcome Center to determine placement after completing the Compass assessment or if they are utilizing another means of course placement. (See earlier in the Get Started section for more placement information.) In this session, students understand their course placement in reading, English and math courses as well as their program requirements in these subjects. Additionally, funding options and appropriate next steps such as reassessment options, meeting with faculty, attending an information session, and completion of a SOAR session are addressed. During entry advising, students are assigned an advisor appropriate to their program of study for future assistance.

### Student Orientation to Advising and Registration (SOAR)

SOAR sessions allow students to gain an understanding of degree requirements and eligibility as well as learn the process of registering for classes using various online tools. SOAR sessions are available in-person, led by educational planners. Visit [greenriver.edu/SOAR.htm](https://greenriver.edu/SOAR.htm) for more information and to sign-up for sessions.

### Future Quarter Advising

Faculty advisors and the Career and Advising Center staff are available to guide students through the process of creating academic plans to meet their educational needs. Advising is an important service to students. Full-time faculty members, educational planners and other trained staff serve as advisors to help students set educational goals. Advisors will provide information about classes, programs and educational support services. Participation in advising will provide students with individualized attention needed to discuss goals, select classes and meet with knowledgeable faculty in their field of study.

Although advisors are available to assist with program planning, it is the student's responsibility to be informed about degree or program requirements and college policies. Students who intend to transfer to a four-year college should take time to learn about that school's requirements.

### To make the advising experience work, Green River suggests:

- Students should get to know their advisor and visit with them at least once a quarter, if not more often. This person is available to help students succeed, so take advantage of this resource.
- Students should determine the classes they need to complete their educational goals.
- Making a list and asking your advisor to help map out an educational plan and timetable.
- If transferring to a four-year college or university, identify the school(s) as early as possible and carefully review their website and transfer requirements. College catalogs, transfer guides and other college information are available for student use in the Career and Advising Center.

Additional advising resources are available under Career and Advising Center in the Current Student section on the Green River website.

### Registration

The final step is to secure class selection. Registration is the process by which students schedule classes for upcoming quarters. Dates to register for classes are announced by the college each quarter and published in the quarterly class schedule and the Green River website.

Students may view their registration access time online at <https://grcc.greenriver.edu/Register/waci004.html>.

Green River College reserves the right to deny admission to, or cancel the registration of, any individual whose attendance would not be of mutual benefit to the individual and the college.

### Credit Load

A student must enroll for a minimum of 12 credits to be considered a full-time student for financial aid, insurance or other programs. A full-time student will enroll for an average of 15 to 18 credits each quarter.

If students are enrolled in a career/technical degree or certificate program, a load of 25 credits is the maximum for which they may register per quarter. Students must have permission from an administrator for a credit overload.

If students are not in a career/technical program and wish to enroll for more than 20 credits, they must complete a Student Request for Credit Overload form and obtain special permission from their advisor and from an administrator. Students must have a minimum cumulative GPA of 3.0 for their requests to be considered.

If students are heavily involved in extracurricular activities, they may want to limit themselves to a 12-credit load. Twelve credits is the normal requirement for eligibility in the activity program at Green River and the Northwest Athletic Association of Community Colleges.

## When to Register

Currently enrolled students are assigned registration access times determined by the number of credits earned at Green River, and transferred-in credits from other institutions that have been evaluated by Green River. Registration dates are listed in the quarterly class schedule and Green River website and registration access times are posted two weeks prior to the start of registration.

Students may view their registration access time through our website at [greenriver.edu/online](http://greenriver.edu/online), then "registration access time."

New student registration begins following the currently enrolled student registration cycle. New students who have an application on file will automatically be assigned a registration access time. New students are eligible to register upon completion of their SOAR session.

Advising is required for students their first quarter.

## Online Registration

### Personal Identification Number (PIN)

Each student's PIN is a randomly assigned number. He or she will be assigned a PIN once they have completed their SOAR session.

To change student pin via the web:

- Visit [greenriver.edu/online](http://greenriver.edu/online);
- Select "Student PIN change" and follow the prompts.

### Web Inquiry Option

In addition to registering, the web offers a variety of inquiry options.

Once the student has accessed the web, a menu will walk them through the steps. The options available:

- Books online
- Class Information
- Degree Audit
- Financial Aid Inquiry
- Registration Access Time
- Web Registration
- Schedule Planner
- Student PIN Change
- Student Schedule
- Tax Credit Information
- Unofficial Transcript
- Manage My Waitlist
- Look up SID #

## Last Day To Register

Students must register by the third day of classes, except for summer quarter, when students must register by the second day of classes. The only exceptions to this rule are identified late-start classes and those classes categorized as continuous enrollment, as indicated by the Curriculum Office.

Please note, a late fee of \$35 per class will be applied to all classes added after the tenth day of the quarter.

## No-Show Replacement

The No-Show Replacement form is used when a class is at full capacity, a student is registered but not attending, and another student is attending the class waiting to register. If a student misses the first class session without notifying the instructor, the instructor may complete the No-Show Replacement form allowing another student entry into the class and the student not attending may be submitted as a no-show. If submitted as a no-show, the student will be dropped from the class roster by Enrollment Services.

## Withdrawal and Refund Policy

### Credit Classes

The refund period for fall, winter and spring quarter is the first 15 calendar days of the quarter. It is the student's responsibility to withdraw from the college or from individual courses. Students must withdraw online or submit a withdrawal/change of schedule form to guarantee the accuracy of their permanent records and to begin refund procedures when applicable. The student may receive a refund under the following conditions:

- 100 percent refund of tuition and fees - when courses or programs are cancelled by the college.
- 100 percent refund of tuition and fees - through the fifth instructional class day of the quarter when a student officially withdraws from class.
- 40 percent refund of tuition only (no fees will be refunded after the 100 percent refund period ends) - when official withdrawal occurs on the sixth instructional day of the quarter through the end of the refund period (see next bullet).
- No refunds - after the 15th calendar day of the quarter. The 15th calendar day is the end of the refund period.
- Short-term classes - 100 percent refund of tuition and fees - when official withdrawal occurs prior to or on the first day of class only. Short-term classes are indicated by dates published with the class listing.
- Refunds of less than ten dollars (\$10) will not be made.
- Appeals to the refund policy must be submitted to the Enrollment Services Office in written form with supporting documents attached. Refund appeals must be received by the Enrollment Services Office within one year of the quarter in question.

- A separate refund policy applies to students receiving financial aid. Tuition refunds must be returned to the financial aid account and not the student.

For summer quarter please refer to the summer quarterly class schedule for refund dates and policy.

A separate refund policy applies for students enrolling in continuing education non-credit classes.

### Students forfeit all claims to refunds of tuition when:

- They discontinue their class or classes without completing the proper forms and procedures.
- They withdraw after the 15th calendar day of the quarter or after 25 percent of the course or program has elapsed, whichever comes first.
- They discontinue their class or classes because of misconduct.
- The Board of Trustees indicates in the college catalog, quarterly class schedule, or course announcement, that such fees are nonrefundable.

### Please note these additional conditions:

- Course fees for self-supporting, continuing education and some Kent Campus classes are exempt from this refund policy. (Contact the Continuing and Community Education Office or Kent Campus for further information.)
- Exceptions may be made for medical reasons or unforeseen military duty. A written appeal must be sent to the registrar with documented proof.
- Students who have paid fees for equipment or materials that have a return or refund value must have the responsible instructor or staff person complete the appropriate form approving the refund.
- Co-op, technology, and facility fees will be refunded for withdrawals through the first day of the quarter (or prior to or on the first session of class for identified late-start classes that begin after the first week of the quarter).
- Other fees that are non-refundable and not subject to this policy will be set by the college's Board of Trustees and identified as such in the quarterly class schedule.
- Special services fee (50 cents per credit) will be refunded for withdrawals through the first day of the quarter (or prior to or on the first session of class for identified late-start classes that begin after the first week of the quarter).

### Complete Withdrawal From College

We strongly encourage students to discuss any plans for withdrawal with their faculty advisor or an educational planner. If students wish to terminate enrollment in the college, they must do the following:

Students may drop classes using online services through the eighth week of the quarter.

Please refer to the college's Academic Standards and Progress Policy in the Academic Information section of this catalog.

### Forms

Change of schedule forms, which enable students to request refunds, are available in Enrollment Services and on the web. Forms are also available for requesting an exception to the refund policy.

### Appeals

Students have the right to appeal refund decisions within one calendar year of their payment when there are special circumstances involved. All appeals must be submitted to the registrar in writing with documented proof.

### Refunds/Return of Federal Financial Aid Funds

A refund of tuition and/or a repayment of grant dollars may be required for students who fail to complete any credits during a quarter (whether they have quit attending or have withdrawn, received 0.0-0.9 grades or incomplete). Green River's tuition refund policy operates independently from the return of federal financial aid funds policy required for financial aid recipients. Tuition refunds are not returned directly to financial aid recipients; instead, they are returned to financial aid accounts.

When students withdraw from classes or quit attending before 60 percent of the quarter has elapsed, unearned Title IV federal funds (grant and loan) must be returned to the federal accounts by both the student and the college. The amount of earned and unearned funds is based upon the number of calendar days of class attendance. The percentage of assistance earned is equal to the percentage of the payment period completed. The percentage of Title IV funds not earned equals 100 percent minus the percent of Title IV aid earned. The student and the college may retain the earned portion of aid, but must return a portion of the unearned aid to the grant and loan accounts.

### Residency Requirements for Tuition Paying Purposes

The state of Washington has established specific criteria for students to qualify as residents for tuition paying purposes (References: RCW 28B.15 and WAC 250.18).

A resident student is one who is a U.S. citizen, or has permanent or temporary resident status, or holds "Refugee-Parolee" or "Conditional Entrant" status with the United States Immigration and Naturalization Service or is otherwise permanently residing in the United States under code of law; and be either:

1. Financially independent student:
  - a. Have established a bona fide domicile in the state of Washington primarily for purposes other than education for a period of one year immediately before the first day of the quarter for which they have registered at any institution; **and**
  - b. Be financially independent.

### OR

2. Financially dependent student:
  - a. Be a dependent student with one or both of their parents or legal guardians having maintained a bona fide domicile in the state of Washington for at least one year immediately before the first day of the quarter for which they have registered at any institution.

### Residency Reclassification

To apply for residency reclassification, students must submit the following information to Enrollment Services:

- Residency Questionnaire
- Required documentation to support independent or dependent status
- Required documentation to support previous 12 months domicile in Washington

Students may apply for residency reclassification no later than the 30th calendar day of the quarter.

### HB 1079 (Undocumented Person) Waiver

Effective July 1, 2003, Washington state law was changed, presumed undocumented students or non-immigrant visa holders who meet certain criteria are eligible for resident student status and resident tuition rates. To qualify students must meet the following: have resided in Washington state for 3 years immediately prior to receiving a high school diploma, completed their full senior year at a Washington high school or completed the equivalent of a high school diploma in Washington State, have completed an affidavit promising to apply for permanent residency in the United States at the earliest possible opportunity and indicate a willingness to engage in activities necessary to acquire citizenship.

Refer to the Residency Reclassification Checklist for complete details. Residency questionnaires are available online, in Enrollment Services, or by calling (253) 833-9111, ext. 2500.

### Waitlist Procedure

#### How do you get into a class that is full?

Entry codes **will not** allow you to by-pass the waitlist option and register yourself into a full class. The waitlist process works as follows:

- Web or in-person registration will provide the option to waitlist into a full class. All prerequisites must be met to be added to a waitlist.
- You can add your name to three separate waitlists – an example would be math, English and chemistry.
- Cluster classes are moved from the waitlist in the order the students were added.
- Review your schedule every few days via the web to see if you have been added to the class.
- You are responsible for making sure your schedule is accurate by dropping any unwanted classes. Failure to do so will result in a 0.0 grade being posted to your transcript and possible extra tuition and fees.
- To remove your name from a waitlist:
  1. Go to [greenriver.edu/online](http://greenriver.edu/online)
  2. Select Manage My Waitlists under Register for classes
- You may also stop by Enrollment Services to request that your name be removed.
- If you have not moved off the waitlist and into the class by the first day of the quarter then you need to attend the first class session and identify yourself to the instructor.
- Attending the first class session will not guarantee admittance in to the class.

Students are responsible for the accuracy of their class schedule. If you are registered for a class that you no longer plan to attend, withdraw from the class online, or stop by Enrollment Services.



# Academic Information

Opportunities • Policies • Procedures • Graduation

# ACADEMIC OPPORTUNITIES

## BASIC SKILLS PROGRAM

(253) 833-9111, ext. 2315

Green River's Basic Skills Program is designed for adults who need to strengthen basic reading, writing, mathematics, and study skills. Students may be starting a college program, gaining skills to enter a career/technical program, preparing to take the high school equivalency tests, or updating skills for a job or other personal goals.

Green River's Basic Skills Program offers a variety of instructional methods including the use of lecture, group work, technology, and individualized study. Classes are designed to serve a range of academic skill levels. (Levels and learning standards are determined by the State Board for Community and Technical College. Entering students take a placement test to determine level.) Classes are offered in morning, afternoon and evenings at each of the campus sites.

## ELEARNING

(253) 833-9111, ext. 3354

eLearning courses offer students additional opportunities to pursue courses, degrees, and certificates that might not otherwise be available. These courses utilize educational technologies such as course delivery systems and the Internet, in addition to regular class materials to assist students. Hybrid courses and telecourses require on-campus meetings for orientation, discussion, or testing. Although eLearning courses are convenient, to be successful students need to have strong motivation, self-discipline, and good learning skills.

The current quarter's eLearning course offerings can be viewed by visiting [grcc.greenriver.edu/elearning-schedule/](http://grcc.greenriver.edu/elearning-schedule/). This site lists the courses, the instructor and directions to the class sites.

## ONLINE COURSES

### Green River Online Courses

Green River faculty have adapted courses they regularly teach in the classroom for online delivery using a course delivery system and the Internet. Internet access is required for these courses. Students will enjoy the flexibility that online courses provide although they do follow a regular schedule of readings, tests and assignments. No on-campus attendance is required for an online course but the instructor may require proctored tests. If so, the instructor will work with the student so they are able to take their test no matter where in the world they may live. Most Green River online courses use Canvas for course delivery. Please go to [grcc.greenriver.edu/elearning-schedule/](http://grcc.greenriver.edu/elearning-schedule/) for the current schedule and directions to the course.

## Hybrid Courses

Hybrid courses are developed by Green River faculty and combine online learning with the traditional classroom format.

Class meetings are held according to a schedule provided by the instructor, with the remaining coursework completed utilizing Canvas and/or other established websites. Visit [grcc.greenriver.edu/elearning-schedule/](http://grcc.greenriver.edu/elearning-schedule/) for the current schedule and more information about courses.

## Telecourses

On rare occasions, faculty will offer a telecourse. Telecourses bring the classroom to your television set. Students view videocassettes and read accompanying texts, send in assignments, as well as attend a few on-campus meetings. If a student does not have access to a VCR, they may choose to view the videotapes in the college library. Visit [grcc.greenriver.edu/elearning-schedule/](http://grcc.greenriver.edu/elearning-schedule/) for the current schedule and information about the courses.

## Washington Online Internet Courses

A few online courses are offered by Washington Online. WAOL courses are developed by college instructors from around the state and function just like online courses. All WAOL courses use Canvas courseware but on a different website than Green River online courses. If you have questions about WAOL courses, call (888) 580-9011 or visit their website at [waol.org](http://waol.org). To see which WAOL classes are offered and to find directions to the WAOL Canvas Learning site, visit [grcc.greenriver.edu/elearning-schedule](http://grcc.greenriver.edu/elearning-schedule).

## ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

(253) 833-9111, ext. 2315

ESOL classes are designed for adult immigrants and refugees who want to improve their English language fluency, reading, writing, speaking, listening, and basic computer literacy skills. Classes provide life skills, general job skills, and preparation for academic classes. Classes are available in the morning, afternoon, and evening at the Green River and Kent campuses and at community sites.

## HIGH SCHOOL EQUIVALENCY TEST PREPARATION

(253) 833-9111, ext. 2315

Green River offers high school equivalency test preparation classes to assist students in preparing for the GED® tests. Classes are available for students who are 16 years of age or older. Students under the age of 19 must have the appropriate signed release forms from their high school to enroll in high school equivalency classes and to take the GED®. Additional information is available online at the Green River website, in the course description portion of this catalog, and in the quarterly class schedule.

The GED® test credential is recognized by most employers and colleges. Ninety-five percent of U.S. colleges and universities recognize the credential. More than half of the GED® test-takers intend to go on to college or postsecondary training. Green River is a test site for the GED® test. Please visit [greenriver.edu/testing](http://greenriver.edu/testing) for more information about testing.

## INTENSIVE ENGLISH AS A SECOND LANGUAGE

(253) 833-9111, ext. 3300

Green River's Intensive English as a Second Language (IESL) program is designed to give nonimmigrant international students the strong English communication skills necessary for success in college. The IESL program is for students who score lower than 61/500 on TOEFL, or 5.5 (all bands at least a 5.0) on IELTS.

The program includes five levels of courses in speaking and listening (oral), grammar, writing, reading, and optional TOEFL for level five students. Free tutoring is available for IESL students. Classes meet four hours a day, five days a week, with a special schedule during summer quarter. After successfully completing the IESL program, international students can enroll directly in Green River's academic classes.

## PROJECT TEACH

(253) 833-9111, ext. 4360

Project TEACH is a pre-service teacher preparation pipeline designed to provide future educators with seamless pathways to teaching careers. Programs include certificates and degrees for those interested in early childhood education, para-education positions, and transfer to complete full teacher certification. Future elementary teachers can complete an Associate in Elementary Education Degree-Direct Transfer Agreement/Major Related Programs See 'Associates in Elementary Education Degree' in the Programs of Study section of this catalog. Future secondary teachers of math can also complete specialized AS-T degrees.

Green River also provides a Teachers of Tomorrow club; specific courses to fit the needs of educators; many opportunities to connect with teachers in K-12 classrooms; scholarships; and knowledgeable faculty advisors to help students plan their teaching career path.

For more information about Project TEACH, visit our website at [projectteach.org](http://projectteach.org).

**STUDY ABROAD****(253) 833-9111, ext. 2160**

Green River College provides students with the opportunity to study abroad while earning Green River transferable credits. Students typically receive 15 academic transfer credits for a ten week program of study which is taught by faculty meeting the same credential requirements as on-campus classes. Classes are often taught in a coordinated fashion, taking advantage of the local history, art, language, and culture to enrich the experience. Courses and classes are subject to the same standards as on campus. Experienced program partners provide extensive logistical support and operations. Programs are currently available in Australia/New Zealand, Japan, England, Italy, Costa Rica, Spain, and others.

Visit [greenriver.edu/studyabroad](http://greenriver.edu/studyabroad) for more information.

**RUNNING START****(253) 833-9111, ext. 2643**

Running Start, a program created by the Washington state Legislature, provides an opportunity for academically qualified high school juniors and seniors to earn college level credit at a significantly reduced cost (courses numbered 100 or higher). Qualifying students must place eligible for ENGL& 101, and be enrolled through a public high school/district. Students who are home schooled or attend a private school are therefore required to contact their public high school/district for enrollment instructions. Running Start students are required to pay for textbooks, supplies, and fees. A fee waiver/book loan program is available for those who qualify.

The decision to begin college early is an important one. Students are encouraged to discuss the decision carefully with parents or guardians and high school counselors. For more information visit [greenriver.edu/RunningStart](http://greenriver.edu/RunningStart).

**TECH PREP****(253) 833-9111, ext. 2581**

Tech Prep gives students an opportunity to get a jump-start on their future by preparing for college and a career while still in high school. The Tech Prep "Dual Credit" Program allows students to earn both high school and career/technical college credit for completing select high school courses with a grade of "C" (2.0) or higher.

**Earning Tech Prep "Dual Credit" is easy!\***

1. Students enroll in high school Career and Technical Education classes offering Tech Prep "Dual Credit."
2. Earn a "C" (2.0) or higher
3. Apply for Admissions at Green River College. Pay \$20 fee.
4. Complete tech prep evaluation request and give it to enrollment services office.

**WASHINGTON STATE CENTER OF EXCELLENCE FOR CAREERS IN EDUCATION****(253) 833-9111, ext. 4360**

There are ten Centers of Excellence housed at colleges across the Washington state two-year college system. Green River College is home to the Center for Careers in Education. Centers are flagship institutions that build and sustain Washington's competitive advantage through statewide leadership. Each Center focuses on a targeted industry that drives the state's economy and is built upon a reputation for fast, flexible, quality education and training programs. A targeted industry is identified as one that is strategic to the economic growth of a region or state. The center operates collaboratively to support the development of future and current educators, disseminate best practices and offer high-quality professional development experiences.

**WORKFORCE EDUCATION****(253) 833-9111, ext. 2211****[workforce@greenriver.edu](mailto:workforce@greenriver.edu)  
[go2collegefree.com](http://go2collegefree.com)**

Workforce Education administers four grants that support the training and employment goals of students enrolled in career and technical programs at Green River College. These grants provide tuition, books and fees to eligible students. For more information, please visit [go2collegefree.com](http://go2collegefree.com). The four grants are:

**Worker Retraining**

The Worker Retraining program provides tuition assistance for dislocated and unemployed workers, those facing imminent layoffs, displaced homemakers and honorably discharged members of the military. The program allocates funds on a quarterly basis to help pay for tuition, fees, and books.

**WORKFIRST**

WorkFirst provides tuition, books, and fees for parents who are currently receiving a Temporary Aid to Needy Families (TANF) cash grant from the Department of Social and Health Services (DSHS).

**BFET (Basic Food Employment and Training)**

The BFET Program provides tuition, books, fees, and required supplies for adults who live in King, Pierce or Kitsap County and receive food stamps, and do not anticipate having their food stamp case closed prior to the start of the academic quarter. BFET is not available to any adult who receives TANF, since those adults are eligible for the WorkFirst program (above).

**Opportunity Grant**

Opportunity Grant offers tuition assistance up to 45 credits for low-income adults. In order to be eligible for this grant, a student must be a Washington state resident, enrolled in an approved program of study, and meet family income guidelines.

**ACADEMIC POLICIES****ACADEMIC STANDARDS AND PROGRESS POLICY**

Every student who enrolls at Green River becomes a partner with the college and the state of Washington with shared responsibilities for student progress and goal completion. As part of our responsibility to each student and to the state that helps to fund each student's college education, Green River has established expectations of student progress and academic performance.

The college monitors student progress and academic performance and intervenes when expectations are not being met. In such cases, the college may determine that a student is not benefiting from continued enrollment and may take steps to limit or deny future enrollment.

In 2003, the Washington State Legislature established a law requiring colleges to develop policies "to ensure that undergraduate students complete degree and certificate programs in a timely manner in order to make the most efficient use of instructional resources and provide capacity within the institution for additional students." This legislation (RCW 28B.10.695) requires that student academic progress policies address:

1. Excessive Credits: Students who accumulate more than 125 percent of the number of credits required to complete their degree or certificate programs.
2. Credit Completion: Students who drop more than 25 percent of their course load before the grading period for the quarter, which prevents efficient use of instructional resources.
3. Academic Standards: Students who remain on academic probation for more than one quarter.

The college has adopted the Academic Standards and Progress Policy to support student success. The complete policy is published in the student handbook and online at [greenriver.edu/Documents/about-grcc/policies-and-procedures/SA-01-academic-standards-and-progress.pdf](http://greenriver.edu/Documents/about-grcc/policies-and-procedures/SA-01-academic-standards-and-progress.pdf).

**ADVANCED CREDITS**

Some students may receive credit through the Advanced Placement Program of the College Entrance Examination Board, articulation agreements with area high schools, International Baccalaureate credit, and military school or experience. Information regarding these programs is detailed in the get started section.

## 24 Academic Information

### ADVANCED PLACEMENT - GENERAL EXAMINATIONS

Examination Name	Minimum Score	Course (Credit)	General Education Category	Comment
Art 2D Design	4-5	ART 109 (5)	Humanities	
Art 2D Design	3	Elective	Elective	
Art 3D Design	4-5	ART 110 (5)	Humanities	
Art 3D Design	3	Elective	Elective	
Art History	3-5	Elective	Elective	
Art Studio (Drawing)	4-5	ART 105 (5)	Humanities	
Art Studio (Drawing)	3	Elective	Elective	
Art Studio (General)	3	Elective	Elective	
Biology	3-5	BIOL& 100 (5)	Lab Science	Natural Science
Calculus AB	5	MATH& &151, &152 (10)	Math Science	Quantitative Skills/Reasoning
Calculus AB	3-4	MATH& 151 (5)	Math Science	Quantitative Skills/Reasoning
Calculus BC	4-5	MATH& 151, &152 (10)	Math Science	Quantitative Skills/Reasoning
Calculus BC	3	MATH& 151 (5)	Math Science	Quantitative Skills/Reasoning
Chemistry	5	CHEM& 161, &162, &163 (18)	Lab Science	Natural Science
Chemistry	4	CHEM& 161, &162 (12)	Lab Science	Natural Science
Chemistry	3	Elective	Elective	
Chinese Language	3-5	Elective	Elective	
Chinese Literature	3	Elective	Elective	
Computer Science A	4-5	CS 120 (2)	Elective	
Computer Science AB	3-4	CS& 141 (5)	Math Science	Quantitative Skills/Reasoning
Computer Science	4-5	CS& 141 (5)	Math Science	Quantitative Skills/Reasoning
Computer Science	5	CS& 141 (5) and CS& 145 (5)	Math Science	Quantitative Skills/Reasoning
Economics (Macro)	4-5	ECON& 202 (5)	Social Science	
Economics (Macro)	3	Elective	Elective	
Economics (Micro)	4-5	ECON& 201 (5)	Social Science	
Economics (Micro)	3	Elective	Elective	
English Language/Composition	5	ENG& 101 (5) and either ENGL 126, 127 or 128 (5)	Basic Skills/ Humanities	Communication and Humanities
English Language/Composition	4	ENGL& 101 (5)	Basic Skills/ Humanities	Communication and Humanities
English Language/Composition	3	Elective	Elective	
English Literature/Composition	3-5	Elective	Elective	
Environmental Science	4-5	ENV S 204 (5)	Natural Science	
Environmental Science	3	Elective	Elective	
French Language	5	FRCH& 123 (5)	Humanities	
French Language	4	FRCH& 122 (5)	Humanities	
French Language	3	FRCH& 121 (5)	Humanities	
French Literature	3-5	Elective	Elective	
German Language	5	GERM& 123 (5)	Humanities	
German Language	4	GERM& 122 (5)	Humanities	
German Language	3	GERM& 121 (5)	Humanities	



**ADVANCED PLACEMENT - GENERAL EXAMINATIONS**

Examination Name	Minimum Score	Course (Credit)	General Education Category	Comment
German Literature	3-5	Elective	Elective	
Government (American)	4-5	POLS& 202 (5)	Social Science	
Government (American)	3	Elective	Elective	
Government (Comparative)	4-5	POLS& 204 (5)	Social Science	
Government (Comparative)	3	Elective	Elective	
History (European)	3-5	Elective	Elective	
History (US)	5	HIST& 136 and &137 (10)	Social Science	
History (US)	4	HIST& 136 or &137 (5)	Social Science	
History (US)	3	Elective	Elective	
History (World)	4-5	HIST 101, 102 or 103 (5)	Social Science	
History (World)	3	Elective	Elective	
Human Geography	3-4	GEOG& 200 (5)	Social Science	
Italian Language	3-5	Elective	Elective	
Japanese Language	3-5	Elective	Elective	
Japanese Literature	3-5	Elective	Elective	
Latin Literature	3-5	Elective	Elective	
Latin: Vergil	3-5	Elective	Elective	
Latin Literature & Latin: Vergil	3-5	Elective	Elective	
Music Listening Theory	3-5	Elective	Elective	
Music Theory	3-5	Elective	Elective	
Music Theory	3-5	Elective	Elective	
Music Theory	3-5	Elective	Elective	
Music: Aural (subscore)	3-5	Elective	Elective	
Music: Nonaural (subscore)	3-5	Elective	Elective	
Physics B	5	PHYS& 114, &115, &116 (15)	Lab Science	Natural Science
Physics B	4	PHYS& 114, &115 (10)	Lab Science	Natural Science
Physics B	3	Elective	Elective	
Physics C (Elec and Mag)	4-5	PHYS& 222 (5)	Lab Science	Natural Science
Physics C (Elec and Mag)	3	Elective	Elective	
Physics C (Mechanics)	4-5	PHYS& 221 (5)	Lab Science	Natural Science
Physics C (Mechanics)	3-5	Elective	Elective	
Psychology	4-5	PSYC 900 (5)	Elective	Social Science
Psychology	3	Elective	Elective	
Russian Language	3-5	Elective	Elective	
Russian Literature	5-5	Elective	Elective	
Spanish Language	5	SPAN& 123 (5)	Humanities	
Spanish Language	4	SPAN& 122 (5)	Humanities	
Spanish Language	3	SPAN& 121 (5)	Humanities	
Spanish Literature	3-5	Elective	Elective	
Statistics	4-5	MATH 256 (5)	Math Science	Quantitative Skills/Reasoning

**Additional Mathematics Note:**

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

**Note:** When numbers 900 or above are assigned, it indicates that there is no specific Green River course equivalent for all or part of that exam. Credit is awarded by category rather than course specific.

If a student's first mathematics course is Math& 152, they will earn

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

- BS = Basic Skills
- HU = Humanities/Fine Arts/English
- LS = Lab Science
- MS = Math/Statistics
- NS = Natural Science
- SS = Social Science

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### Advanced Placement (AP) (College Board)

Effective July 1, 2009

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

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

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

### Articulation Agreements

Green River recognizes that quality education takes place in other learning institutions. In realization of this, Green River has signed articulation agreements with area high schools, as well as other institutions of higher learning. Articulation agreements are agreements by which credits taken at a particular institution are accepted automatically at another, allowing that all requirements of the agreement have been met.

### Transfer Institution Agreements

Green River has been working with several four-year institutions, both in the state of Washington and bordering states such as California, Oregon, Idaho and Montana. These agreements are designed to provide a smooth transition from Green River into specific college departments. The agreement between Green River and the other colleges identifies specific courses that if taken will be allowed for automatic credit at the other institution. In doing so, Green River is enabling students to, for the most part, transfer directly into their majors. Students should contact their Green River program advisor for agreements in their area of study.

### High School Agreements

Green River recognizes that quality education takes place in area high schools and has signed articulation agreements with many schools to grant college credit to students earning a grade of a C (2.0) or higher in their high school career/technical courses. Credits are posted to transcripts the following quarter in which they were earned.

To qualify, students must meet specific requirements established by the college and high school instructors and apply for credit through their high school and pay associated fees. Further agreements between high schools and additional career/technical programs are being developed.

Students can contact their high school counselor or for more details.

### Career/Technical (Tech Prep)

Tech Prep is a course of study that combines academic and career/technical instruction in the high school setting, and then directly applies those high school credits to a specific community or technical college program (see pages 54-102).

Articulation agreements between area school districts and Green River College have been developed. Tech Prep articulation agreements allow high school students to earn both high school and community/technical college credit through the "Direct Credit" program.

### International Baccalaureate Credit (IB)

The International Baccalaureate Program is a rigorous pre-college course of study for highly motivated high school students. The comprehensive curriculum is designed to prepare students for a liberal arts education at the college level. It is called "international" because it is available to students in several countries, not because it is in any way an international experience. The International Baccalaureate program is similar to the College Board Advanced Placement program, but differs because IB scores require a test score and a very rigorous class.

Green River has begun accepting International baccalaureate credit. Students are encouraged to meet with their advisor for transfer of credit information. See the list below for departments granting IB credits.

### Submitting Your IB Transcript

The easiest way to ensure that Green River receives your IB transcript is to name Green River as a recipient when you sign up for your IB program exam(s). If you do not name Green River as a recipient when you take your exam, contact the IB Organization to request that an official IB transcript be sent directly to the Green River transcript evaluator. When you are admitted to the college, you may be eligible for Green River course credit; if so, the courses and credits awarded will be accessible on your degree audit. You will be notified by e-mail of credit awarded.

## INTERNATIONAL BACCALAUREATE CREDIT (IB)

IB Department	Score	Course(s) and Credits	Counts Towards/Comments
African History	7, 6, 5	HIST 224 (5 cr)	Social Science Distribution
American History	7, 6, 5	HIST& 136 and HIST& 137 (10 cr)	Social Science Distribution
Biology	7, 6, 5	BIOL 100 (5 cr)	Lab or Natural Science Distribution
Chemistry	7, 6	CHEM& 161, &162, &163 (18 cr)	Lab or Natural Science Distribution
Chemistry	5	CHEM& 161, &162 (12 cr)	Lab or Natural Science Distribution
East/Southeast Asia and Oceania History	7, 6, 5	HIST 900 (5 cr)	Social Science Distribution
Environmental Science	7, 6, 5	ENV S 204 (5 cr)	Natural Science
European History	7, 6, 5	HIST 230 (5 cr)	Social Science Distribution
History			See – American History, East/Southeast Asia, European History, and Oceania History
Islamic History	7, 6, 5	HIST 900 (5 cr)	Social Science Distribution
Mathematics	7	MATH& 151 (5 cr)	Math/Science Distribution
Mathematics	6, 5	MATH 900 (5 cr)	Math/Science Distribution
Physics	7, 6	PHYS &114, &115 and &116 (15 cr)	Lab or Natural Science Distribution
Physics	5	PHYS &114, and &115 (10 cr)	Lab or Natural Science Distribution

**Note:** When numbers 900 or above are assigned, it indicates that there is no specific Green River course equivalent for all or part of that exam. Credit is awarded by category rather than course specific. The IB Exam for Engl B (ESL) is considered non-transferable to Green River.

## Military Service School Credits

Credits for military personnel's military school and experiences are granted according to the publications of the American Council on Education.

**Current editions are on file with the credentials evaluators in the Enrollment Services Office.**

Note: Some four-year schools will not accept military credits.

Please note that Green River will accept military basic training experience to satisfy the one-credit physical education activity requirement, providing basic training was completed within the last ten years. Green River will also accept four years of military service to satisfy two credits of the physical education fitness/wellness requirement providing the military service was completed within the last ten years.

### Procedure

1. Students should submit official copies of their CCAF, SMART, JST or AART, certified copy of their transcripts or a copy of their DD 214's to the Enrollment Services Office with a request for transcript evaluation form.
2. The credential evaluator will review the record and translate military credit into Green River course numbers and credit values.
3. The student will be e-mailed a copy of the results and a copy will be maintained in the student's file.
4. Credits will be posted to the "Transfer Credit" portion of the transcript upon graduation only.

## Prior Learning Assessment

Green River College offers students the opportunity to earn credit for prior non-traditional education and/or work experience. Students who wish to receive credit(s) for prior learning must complete the Prior Learning Assessment request form in coordination with an assigned faculty member and pay regular tuition based on the number of credits requested. Prior Learning credits are awarded for one to two credits per quarter.

Students will be assessed through a course challenge process which will determine the courses to which the students have met the learning outcomes. These courses must be current and correspond to the course(s) taught at Green River.

Students will work with an assigned faculty member to evaluate the prior learning of a student in relation to the competencies of the program and will award credit for demonstrated learning outcomes that are appropriate to the course. This could be a test, demonstration, written documentation, oral interview, or other appropriate method by which the faculty member determines the students' understanding of the subject matter.

Grades and credits will be assigned to PLA awards and will be posted to the student's transcript. Credits earned through PLA at any Washington Community and Technical Colleges will be accepted toward the appropriate course or program at any other Washington Community and Technical College.

## AGE EXCEPTION POLICY

The following guidelines apply to the admission of those persons who do not meet general admission requirements.

### Policy

Students under the age of 18 who have not earned a diploma or the equivalent from an accredited high school may be admitted only upon appropriate release from their high school, to include summer quarter. Home schooled and Running Start students are also subject to the special admission requirements outlined below. Students will be required to submit a High School Release Form or Running Start Enrollment Verification Form signed by the appropriate high school official when they apply for admission. Applications for underage students must have a signed release form submitted in order to be processed.

Students under the age of 16 normally will not be admitted. If a potential student will not turn 16 during their first quarter of enrollment, the student must contact the Director of Career and Advising Services to seek an exception.

### Procedure

#### Exemptions will be made according to the following criteria:

- The student must be referred to Green River by an academic institution or educator. This referral must include a release form from the student's school district of residence, signed by the counselor (referring agency) and the student's parent or guardian. The high school release form must be submitted each quarter with an annotation by the high school counselor identifying specific class(es) the student is recommended to take.
- Students who are admitted must complete formal enrollment prior to the first day of the quarter.
- If it is determined that the student is eligible for courses available through the public school system, the student should not be enrolled.
- Students must meet course prerequisites and demonstrate academic preparedness through Compass placement or an independent evaluation by a full-time faculty member from the appropriate division(s).
- An evaluation of the student's maturity/college readiness must be conducted. This can be accomplished through a personal interview between the student, the Director of Career and Advising Services, the dean of the appropriate academic division or the instructor of record for the course(s) to be taken. It may be appropriate to include the parent/guardian of the student in these discussions.
- Exemption requests must be made at least 15 working days prior to the start of the academic quarter in which the applicant wishes to enroll.

Students not complying with these procedures will be withdrawn.

## GRADING SYSTEM AND POLICY

### GRADES

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

A	4.0–3.9
A–	3.6
B+	3.3
B	3.0
B–	2.7
C+	2.3
C	2.0
C–	1.7
D+	1.3
D	1.0 Lowest passing grade
F	0.0 Failure or unofficial withdrawal—no credit given

### Additional Grade Designations:

- I Incomplete.** An instructor may record a student's work as Incomplete when the student has been delayed in completing the required work for a good reason. Work may be completed according to an agreement between the instructor and student. The Incomplete agreement will reside with the instructor of record. The Incomplete is not posted to "hours attempted" until the Incomplete is made up. "I" does not affect GPA. The student has four quarters (or less, if instructor indicates) to finish the Incomplete. After four quarters, if the "I" grade still appears on the transcript it will be automatically changed to a 0.0 by Enrollment Services.
- N Audit.** Indicates the student enrolled for information only (no credit given) and attended class regularly. "N" does not affect GPA.
- NC No Credit.** Indicates the student petitioned the registrar for a P/NC grade (prior to the end of the eighth week of the quarter) and earned a decimal grade lower than 1.5.
- P Pass.** Indicates the student petitioned the registrar for a P/NC grade (prior to the end of the eighth week of the quarter) and earned a decimal grade equal to or greater than 1.5, or the class is offered on a pass/no-credit basis.
- S Satisfactory.** Indicates the student is making satisfactory progress but has not completed all the competencies for a given level of instruction. No credit is awarded. The S grade may be used only for BASIC and ESOL classes numbered under 100. Courses with "S" grade designators cannot be applied toward any degree or certificate program. Courses with "S" grades indicate "work in progress" and do not denote course completion.

## 28 Academic Information

**W Official Withdrawal.** Indicates the student initiated an official withdrawal from class and submitted the proper paperwork to the Registrar's office. See "Withdrawal From Classes" and other appropriate sections. "W" does not affect GPA.

### GRADING SYMBOLS

These symbols may also be used on grade reports or transcripts:

- \* Missing Grade.** No grade assignment given. Student must contact instructor.
- R Repeat.** The symbol "R" after a grade indicates the student later repeated the class. The grade/credit from this class does not affect GPA.
- Y Work in Progress.** The class is in progress at grading time. Students should contact the instructor regarding questions about the particular grades earned.

### Grades, Obtaining

Students may obtain an unofficial copy of their transcript, which includes all the classes the student has taken at Green River and the grades earned, from the web at [greenriver.edu/online-services](http://greenriver.edu/online-services). clicking on the Student Info tab, and selecting the "Unofficial Transcript" link.

### Grading Policy

Grade changes are valid only for courses in which students were OFFICIALLY registered. Approved grade changes will be accepted for up to four quarters following the quarter in which the original grade was assigned. Grade changes are not valid for W or N grades. Grade changes are to be signed by the "instructor of record" or, if the instructor cannot come to campus, by the division chairperson or instructional dean.

### Pass/No-Credit Policy (P/NC)

To declare an intention to be graded pass/no-credit, the student must file a petition with the registrar no later than the end of the eighth week of the quarter for fall, winter, spring, and no later than the fifth week of summer quarter. For students who qualify, the registrar will convert the decimal grade submitted by the instructor either to credit (P) or to no credit (NC). This petition is a contract and is not rescindable.

No more than 25 percent of the required credits may be graded "Pass" to satisfy requirements for the Associate in Arts, Associate in Business, Associate in Elementary Education, Associate in Fine Arts, Associate in Math Education, Associate in Pre-Nursing, Associate in Science-Transfer, Associate in Applied Arts, Associate in Applied Science, Associate in Applied Science-Transfer, Associate Pre-Professional degrees and Bachelor of Applied Science degree.

Associate Development courses with "Pass" grades may not satisfy the transfer requirements of a student's major field. Students are urged to consult the catalog of the four-year institution to which they plan to transfer.

### Repeating a Course

Students may repeat a course for which they have earned credit when such a repeat is necessary to satisfy a requirement for improving academic or skill progress (grades). If deemed necessary to repeat, students may only do so twice. (This is defined as two repeats in addition to the original enrollment.) The Health Sciences and Education Division has more restrictive policies regarding repetition of classes. See the program advisor for specific information.

### Credit by Challenge

Students may enroll for credit by challenge in a course with the instructor's approval if:

- The student believes he or she has achieved the required knowledge or skills necessary to receive credit without regularly attending the class sessions; and
- The student is eligible to take the course.

Courses offered by the college but not appearing in the quarterly class schedule may be challenged by requesting that the course be added to the schedule for "credit by challenge" purposes. Students who wish to challenge a course must:

- Consult with the instructor of the class they wish to challenge; and
- Pay regular tuition and fees.

All procedures for the granting of credit by challenge, other than those related to the registration process, are determined by the appropriate instructor and approved division procedures.

### Grade Forgiveness Policy

This policy is designed to give returning students a fresh start from their unsuccessful transcript record after an extended absence from Green River. The requirements for the policy are as follows:

- Student has had at least a two-year absence from Green River and grades to be excluded must have been taken prior to the two-year absence.
- After returning to Green River, the student must demonstrate improvement by completing a minimum of 24 credits with a cumulative GPA of 2.0.
- Student cannot select specific courses or quarters for exclusion. Once the first quarter of Grade Forgiveness has been selected, all quarters between that quarter and the first returning successful quarter (after the two year absence from Green River) will be coded with the Grade Forgiveness Policy comment.
- Once a Grade Forgiveness is processed, credits for excluded courses will be changed to zero (0) and will not be included in the Green River credit total and GPA. Student's transcript will continue to show previous courses taken and grades received. A comment will be placed on the transcript indicating that a Grade Forgiveness has been approved for the student.
- Credits excluded may not be reinstated, may not be used as prerequisites and may not apply toward degree requirements.

- Grade Forgiveness may not be used to qualify for an honors designation.
- Student must submit form to Enrollment Services-Records office. The registrar will make appeal decisions.
- Only one Grade Forgiveness petition is permitted on the student's transcript.

### Withdrawal Policy

Students may withdraw from the college or from classes until the last instructional day of the eighth week of the quarter during fall, winter, and spring. For summer, see the quarterly class schedule for withdrawal dates.

### RECIPROCITY AGREEMENT POLICY

Washington community and technical colleges (CTCs) offer reciprocity to students transferring within the CTC system who are pursuing the Direct Transfer Agreement (DTA) degrees or the Associate in Science-Transfer (AS-T) degrees. Students who complete an individual course that met distribution degree requirements or fulfill entire areas of their degree requirements at one college will be considered to have met those same requirements if they plan to complete the same degree when they transfer to another community or technical college in Washington. These degree requirements include Communication Skills, Quantitative Skills, or one or more Distribution Area requirements. Students must initiate the review process and must be prepared to provide the necessary documentation. For complete information go to [greenriver.edu](http://greenriver.edu).

### STUDENT LEARNING OUTCOMES

Green River College is committed to the continuous improvement of teaching and learning. To this end, the faculty generated and defined four Campus-wide Learning Outcomes. These are outcomes that should be addressed in a variety of classes within a student's degree or program of study, allowing the student repeated practice with each outcome as he or she moves through a degree or program of study.

Furthermore, each Campus-wide Outcome has competencies, which are components of the larger outcome. These competencies are meant to clarify the meaning of the larger outcome and provide examples of what this outcome may include. However, the competencies are not meant to be reductive or prescriptive; courses that address a Campus-wide Outcome must include at least one and may include more of these competencies. Furthermore, students may be exposed to different competencies of an outcome depending on which degree or program of study they complete.

In order to claim proficiency with a Campus-wide Outcome, it is not necessary for all students to learn every competency of every Campus-wide Outcome. Similarly, in order for a course to claim a Campus-wide Outcome, that course need not address every competency listed for that outcome.

All students completing a degree will be exposed to and are expected to demonstrate proficiency with the four campus-wide outcomes: Written Communication, Critical Thinking, Responsibility, and Quantitative and Symbolic Reasoning.

## Written Communication

Written Communication encompasses all the abilities necessary for effective expression of thoughts, feelings, and ideas in written form. This outcome includes abilities designed to help students:

- 1.1 demonstrate use of a writing process.
- 1.2 demonstrate a clear sense of purpose, focus, thesis, or design in writing.
- 1.3 demonstrate the ability to develop an idea with support.
- 1.4 demonstrate audience awareness in writing.
- 1.5 demonstrate appropriate methods of integrating and documenting outside sources.
- 1.6 demonstrate information literacy by finding, evaluating, and selecting relevant and credible sources using a variety of information tools.
- 1.7 demonstrate clear organization of thoughts in coherent written form.
- 1.8 demonstrate appropriate choice of format, style, and tone for each particular writing assignment.
- 1.9 use appropriate mechanics, grammar, and word usage based on the language of instruction.
- 1.10 improve the ability to evaluate, revise, edit, and proofread individual work and the work of others.

## Critical Thinking

Critical thinking finds expression in all disciplines and everyday life. It is characterized by an ability to reflect upon thinking patterns, including the role of emotions on thoughts, and to rigorously assess the quality of thought through its work products. Critical thinkers routinely evaluate thinking processes and alter them, as necessary, to facilitate an improvement in their thinking and potentially foster certain dispositions or intellectual traits over time. This outcome includes abilities designed to help students:

- 2.1 apply relevant criteria and standards when evaluating information, claims, and arguments.
- 2.2 use appropriate reasoning to evaluate problems, make decisions, and formulate solutions.
- 2.3 give reasons for conclusions, assumptions, beliefs, and hypotheses.
- 2.4 seek out new information to evaluate and re-evaluate conclusions, assumptions, beliefs, and hypotheses.
- 2.5 exhibit traits evidencing the disposition to reflect, assess, and improve thinking or products of thinking.

## Responsibility

Responsibility encompasses those behaviors and dispositions necessary for students to be effective members of a community. This outcome is designed to help students recognize the value of a commitment to those responsibilities which will enable them to work successfully individually and with others. This outcome includes abilities designed to help students:

- 3.1 identify and comply with clearly stated expectations, policies, and procedures.
- 3.2 recognize and accept consequences resulting from a failure to comply with stated expectations, policies, and procedures.
- 3.3 meet obligations necessary to complete individual and group tasks.
- 3.4. Clearly communicate to affected parties any difficulties that may prevent them from fulfilling obligations.
- 3.5 demonstrate common courtesies and show respect for the needs, difficulties, and rights of others.
- 3.6 strive for excellence in contributions, performances, and products.
- 3.7 complete work independently and appropriately acknowledge the source of ideas and contributions of others.

## Quantitative and Symbolic Reasoning

Quantitative Reasoning encompasses abilities necessary for a student to become literate in today's technological world. Quantitative reasoning begins with basic skills and extends to problem solving. This outcome includes abilities designed to help students:

- 4.1 evaluate and interpret quantitative and symbolic reasoning information/data.
- 4.2 recognize which quantitative or symbolic reasoning methods are appropriate for solving a given problem.
- 4.3 correctly implement the quantitative or symbolic reasoning methods that are appropriate for solving a given problem.
- 4.4 demonstrate the ability to estimate a solution to a presented problem.
- 4.5 translate data into various formats such as symbolic language, equations, graphs, and formulas.
- 4.6 implement calculator/computer technology to solve problems.
- 4.7 demonstrate logical reasoning skills through formal and informal proofs.

In order to assess the effectiveness of its instructional programs, the college evaluates student achievement of published learning outcomes at the course, program, and campus-wide levels. At the course level, instructors identify in their syllabi which learning outcomes the course supports and how the outcomes will be assessed. At the program level, each program completes an assessment project as part of their

regular and on-going review process. At the campus level, student achievement of the Campus-wide Outcomes is periodically reviewed across discipline areas and degrees. Finally, students are encouraged to refer back to the Campus-wide Learning Outcomes frequently during the course of their degree or program and self-assess their proficiency with the outcomes. Green River believes that students who can demonstrate proficiency with the Campus-wide Outcomes, as well as content within their specific subject areas, are more likely to achieve success in the workplace and in future educational endeavors.

## PROGRAM OR DEGREE OUTCOMES

### Oral Communication

Oral Communication encompasses all the abilities necessary for effective expression of thoughts, feelings, and ideas in oral form. This outcome is concerned with helping students

- 5.1 identify the role oral communication plays in academic, social, and professional endeavors.
- 5.2 demonstrate increased confidence in oral communication skills.
- 5.3 listen carefully and respond to questions appropriately.
- 5.4 modify verbal and nonverbal communication appropriately given the purpose and the context of the communication.
- 5.5 plan, prepare, and deliver a well-organized, logical oral presentation that demonstrates critical thinking skills.
- 5.6 use appropriate presentation techniques (e.g. maintain eye contact, modulate voice, avoid distracting mannerisms, etc.).
- 5.7 employ appropriate discussion, negotiation, conflict resolution, and cooperation skills to work with people from a variety of experiences and backgrounds to promote learning in class activities and group work.

### Human Relations:

This outcome includes abilities designed to help students:

- 6.1 demonstrate responsibility.
- 6.2 demonstrate self-worth.
- 6.3 demonstrate sociability in groups.
- 6.4 demonstrate self management.
- 6.5 demonstrate integrity/honesty.
- 6.6 participate as team member.
- 6.7 teach/help others.
- 6.8 exhibit leadership.
- 6.9 negotiate agreements.
- 6.10 appreciate and work with diverse groups.

# ACADEMIC PROCEDURES

## ACADEMIC RECORDS

### Change of Address

If your mailing address has changed during the quarter, be sure to change your new address online.

1. Go to [greenriver.edu/online](http://greenriver.edu/online)
2. Under Student Info., Select Student Address

If you are on financial aid, you must also notify the Financial Aid Office.

### Confidentiality of Records

Students at Green River have the right to examine their educational records, and the college may not, without the student's permission, let others examine those records for other than educational purposes, per the Family Educational Rights and Privacy Act (FERPA) policy.

### Name Changes

It is important that a student's name is accurately reflected on his or her individual record. The Enrollment Services Office maintains a confidential record of the student's last name, first name, middle initial and up to two previous last names. It is the student's responsibility to notify the Enrollment Services Office of any change.

To report a name change on their record, students must:

- Submit it in writing. Complete a student information change form.
- Initiate the change. Signature is required.
- Show documentation. A copy of a marriage certificate, divorce decree, adoption papers, court order or other legal documents must be attached to the request.

### Student Identification Number

All students are assigned a SID to use for all transactions at Green River College. Students who forget or lose their assigned SID will need to bring picture ID into Enrollment Services to obtain their number.

Green River requests social security numbers at the time students make application to the college. As authorized under state law SB5509, the SSN will not be used as the SID number that would appear on the class rosters and most other documents. Generally, the SSN is stored confidentially in the records and used only for necessary purposes as authorized by law. Those purposes include the following:

- Financial aid, including loan deferments from other colleges or universities.
- Hope scholarship and Lifelong Learning (tuition tax credits).
- Financial aid related to verification through National Student Clearinghouse.

- Workforce or unemployment data matching purposes.
- Official transcripts for identification of official records.

### Student Right to Privacy (FERPA)

All student educational records are maintained according to the Family Educational Rights and Privacy Act of 1974 (FERPA) concerning the information, which becomes part of the student's permanent record and governing the conditions of its disclosure. Students have the right to see their records and to request an amendment to those records.

Only directory information can be released without the student's authorization. A student must sign a release in order to have any other information disclosed or to withhold all information. Education information may be released to other institutions that have requested the records and in which the student seeks or intends to enroll. Information may be released to a third party without the student's consent if an emergency situation exists or if information is requested officially by means of a subpoena, court order or legal report. Additionally, Congress requires student information to be released to military recruiters if officially requested. Directory information may include student's name, e-mail address, photographs, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, and other similar information.

### Transcripts

A transcript of each student's permanent record of grades is maintained in Enrollment Services. An official transcript of grades will be sent to any high school, college, university or other agency upon the student's request. All transcripts are ordered online at [studentclearinghouse.org](http://studentclearinghouse.org). The cost is \$7.75 per transcript, plus a processing fee of \$2.25 per recipient. Processing takes one to two business days contingent upon completion of the current quarters grading cycle.

If you need a transcript immediately there is a \$25.00 in person On-Demand per transcript fee. The form is available at the Enrollment Services Office.

### How do I get a copy of my transcript?

- Students can request a copy of their transcript from the National Student Clearinghouse at [studentclearinghouse.org](http://studentclearinghouse.org). The cost is \$7.75 per transcript, plus a \$2.25 processing fee.
- Students can receive their transcript immediately using our in person On-Demand form at the Enrollment Services Office. The fee is \$25 per transcript.
- Students may print unofficial copies of transcripts from our web site at [greenriver.edu/](http://greenriver.edu/) online under the Student Information tab.

### AUDITING A CLASS

Students may audit a class by enrolling for information only (no credit given) and attending class regularly. Students must declare their intention to audit at the time of registration. Auditing does not affect the grade point average (GPA). Auditors must pay regular tuition and fees.

### CHANGE OF PROGRAM

Students planning to change their career/technical program or their intended major (if transferring to a college or university), must visit the Career and Advising Center to update their program of study and be assigned a new advisor, if appropriate.

## GRADUATION

(253) 833-9111, ext. 2500

When students are two quarters away from completing their educational program, they should submit an application for graduation to the cashier's office with the \$20 graduation fee.

Applications for graduation and detailed instructions are available at Enrollment Services. Students may also run a degree audit by accessing Online Services at [greenriver.edu](http://greenriver.edu). To be eligible for graduation, students must have accomplished the following:

- Completed all admissions requirements.
- Earned a minimum grade point average of 2.0.
- Completed 24 credits at Green River (doesn't pertain to high school diploma or career/technical certificate candidates).
- Completed their last quarter at Green River.
- Filed an application for graduation with Enrollment Services.
- Completed all degree requirements as specified by the Green River catalog.

Students may graduate using the degree requirements in effect during their first quarter of enrollment at Green River College for up to six years. After six years, students need to meet the requirements listed in the current catalog. Students may petition the degree exception committee with proof of continuous enrollment to be exempt from this policy.

Each degree or certificate requires a separate application form.

Students may graduate at the end of any quarter.

### COMMENCEMENT

One commencement ceremony is held at the end of the academic year. Any student who has been approved for graduation during the year is eligible to participate in the June ceremony. Students who plan to complete their requirements during the following summer quarter may apply for graduation and participate in the ceremony. All diplomas will be mailed to students three to four weeks after grades are posted in the quarter in which they have completed graduation.

## DEGREE EXCEPTION

In some cases, students may wish to appeal the graduation requirements. All requests must be in writing (see the Enrollment Services Office for degree exception forms) and should be submitted to the Enrollment Services Office for action. The Degree Exception Committee meets twice a quarter, during fall, winter and spring. Written faculty or advisor approval is required when submitting a request.

## GRADUATION AWARDS

### Scholastic Awards

Scholastic awards celebrate student success by recognizing graduates who:

- Earn a degree in arts, business, math, elementary education, pre-nursing, science, applied arts, and applied science, or a pre-professional (academic transfer or career/technical programs only).
- Attain a minimum 3.9 grade point average (includes transfer credits and grades from all quarters except the spring quarter in which they may be graduating).
- Earn a minimum of 24 credits at Green River, including the last quarter in residence.
- Earn no more than 25 percent of the required credits on a pass/no-credit basis.

### Division Awards

Each instructional division selects one outstanding graduate to receive a Division Award. The recipient is selected by a vote of divisional faculty members.

### Honors

For degrees and 90 credit certificates. Graduates who achieve outstanding grade point averages receive honor cords to wear at commencement and are recognized in the commencement program. These are awarded as follows for Associate Degrees:

Highest Honors	4.0 GPA
High Honors	3.7 – 3.89 GPA
Honors	3.5 – 3.69 GPA

Awards for Bachelor Degrees:

Summa Cum Laude	4.0 GPA
Magna Cum Laude	3.7-3.89 GPA
Cum Laude	3.5-3.69 GPA

Graduation honors are based on Green River grades only. A minimum of 24 credits must be graded (not pass/no-credit). All levels of honors will be noted on the diploma and Green River transcript.

### International Academic and Leadership Award

The International Programs Award is presented to an international student who has demonstrated academic excellence and has made an outstanding contribution to international understanding on the campus.

### Leadership and Service Awards

A leadership or service award is presented to three students who have held a position of leadership or have contributed to a major service project on campus.

### Multicultural Award

The Multicultural Award is presented to a student who has demonstrated the academic promise and has made an outstanding contribution to the on-campus multicultural population.

### Outstanding Running Start Award

The Outstanding Running Start Award is presented to a Running Start student who has demonstrated outstanding academic achievement, as well as contribution to Green River College or their local community.

### President's Award

The President's Award is presented to a student who has exhibited professional promise and outstanding citizenship, personal qualities, and grade point average. The recipient is selected by a vote of faculty, administrators, and staff.

**NOTES**





# Programs of Study

University Transfer • Career and Technical • Other Learning Options

**DEGREE AND CERTIFICATE PROGRAMS**

The following lists all the degree and certificate programs offered at Green River College.

<b>University Transfer</b>	AA-DTA	Associate in Arts Degree – Direct Transfer Agreement
	AB-DTA/MRP	Associate in Business Degree – Direct Transfer Agreement/Major Related Programs
	AFA-DTA	Associate in Fine Arts Degree – Direct Transfer Agreement
	AM-DTA	Associate in Math Education Degree – Direct Transfer Agreement
	APreN-DTA/MRP	Associate in Pre-Nursing Degree – Direct Transfer Agreement/Major Related Programs
	A-PP	Associate in Pre-Professional Degree
	AST-1	Associate in Science Degree – Transfer Option 1
	AST-2	Associate in Science Degree – Transfer Option 2
	AST-2/MRP	Associate in Science Degree – Transfer Option 2/Major Related Program
	AAS-T	Associate in Applied Science-Transfer Degree
A-Cert	Academic Certificate	
<b>Professional and Technical</b>	BAS	Bachelors in Applied Science Degree
	AAA	Associate in Applied Arts Degree
	AAS	Associate in Applied Science Degree
	Cert	Certificate
	Cert-P	Certificate of Proficiency
<b>Other Learning Options</b>	AD	Associate Development
	HSE	High School Equivalency Certificate
	HSD	High School Diploma

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Associate in Arts Degree, AA-DTA.....	38
Associate Development, AD.....	102
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Accounting Clerk, Cert-P.....	54
Administrative Assistant AAA, Cert.....	54-56
Data Entry, Cert-P.....	56
File Clerk, Cert-P.....	56
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Office Support 2, Cert-P.....	56
Aeronautical Engineering, AST-2/MRP.....	45
Aeronautical Science.....	59-60
Flight Operations, BAS.....	59-60
Aviation Operations Management, BAS.....	59-60
Aerospace and Advanced Manufacturing.....	56-57
Quality Assurance and Inspection, Cert-P.....	57
Machine Maintenance 1, Cert-P.....	56
Machine Maintenance 2, Cert-P.....	56
Precision Machining 1, Cert-P.....	57
Precision Machining 2, Cert-P.....	57
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Ceramics, A-Cert.....	47
Design, A-Cert.....	47
Interdisciplinary, A-Cert.....	48
Photography, A-Cert.....	48
Studio, A-Cert.....	48
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Engine Performance, Cert-P.....	58
Heating and Air Conditioning, Cert-P.....	58
Transmission and Transaxle, Cert-P.....	59
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Airline Dispatch, AAS.....	60
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Airline Dispatcher, Cert-P.....	61
Airport Management, AAS.....	62-63
Airport and Air Transportation, Cert-P.....	63
Basic Aviation Knowledge, Cert-P.....	64
Advanced Aviation Knowledge, Cert-P.....	64
Atmospheric Science, AST-2.....	44
Bioengineering Pre-Engineering, AST-2/MRP.....	45
Biology, AST-1.....	43
Broadcasting, A-PP, Cert-P.....	48-49
Business, AB-DTA /MRP.....	39
Business Applications Specialist, AAA Cert.....	65-66
Business Applications for Small Business, Cert-P.....	67
Distance Education Preparation, Cert-P.....	67
Business Management, AAS.....	67
Business Foundations, Cert.....	68
Management and Supervision, Cert-P.....	68
Marketing and Sales, Cert-P.....	68
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Captioning, Computer Reporting Technologies-Sequence B, AAA	71-72
Caregiving Fundamentals: Introduction to Health Occupations, Cert-P	81
Carpentry Technology-Residential and Light Commercial, AAS Cert-P	68-69
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Residential Exterior Finish Level 1, Cert-P	69
Residential Light and Commercial Framing Level 1, Cert-P	69
Residential Light and Commercial Framing Level 2, Cert-P	69
Residential Light and Commercial Framing Level 3, Cert-P	70
Residential Interior Finish Level 1, Cert-P	70
Residential Interior Finish Level 2, Cert-P	70
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Court Reporting-Computer Reporting Technologies-Sequence A, AAA	72
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Medical Stenoscryptionist, Cert-P	73
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Corrections, Cert-P	74-75
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Design Drafting Technology, AAS	76-77
Architectural Drafting Proficiency, Cert-P	78
Architectural, Structural and Civil Drafting, Cert	79
Civil Drafting Proficiency, Cert-P	79
Construction Design Technology, AAS	76
Drafting Proficiency, Cert-P	79-80
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State Short Early Childhood Education Certificate of Specialization-Administration (statewide), Cert-P	85

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State Short Early Childhood Education Certificate of Specialization-General (state wide), Cert-P	85
State Short Early Childhood Education Certificate of Specialization-Infants and Toddlers (statewide), Cert-P	85
State Short Early Childhood Education Certificate of Specialization-School Age Care (statewide), Cert-P	85
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Software Development, BAS	86-87
Systems, AAS-T	87-88
Web Application Development, Cert-P	88-89
Legal Administrative Assistant, AAS	89
Machining and Manufacturing Technology, AAS Cert-P	89-90
Maintenance Mechatronics, AAS	91
Marketing and Entrepreneurship, BAS	90-91
Materials Science Pre-Engineering, AST-2/MRP	45
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Forestry, AAS	93-94
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Physical Therapy Assistant, AAS	99-100
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Wastewater Technology, AAS	100
Municipal Wastewater Treatment Technology, Cert-P	101
Water Distribution Technology, Cert-P	100
Water Supply Technology, AAS	100-101
Welding Technology, AAS	101
Basic Arc and Flame, Cert-P	101
Intermediate Arc and Flaming, Cert-P	101
Advanced Arc Welding, Cert-P	102

## UNIVERSITY TRANSFER DEGREES AND CERTIFICATES

Green River College is fully accredited by the Northwest Commission on Colleges and Universities (NWCCU), as well as by several discipline-related bodies. The college has completed numerous evaluation processes and has been recognized for performance, integrity and quality. This is important for students who plan to transfer credits to other colleges. Academic courses will usually be accepted by other institutions offering the same (or similar) courses. However, each institution has its own transfer policy and transferability should never be assumed. The Green River Career and Advising Center staff in LC 126 can assist you with your transfer questions. The Transfer Resource Center features a library of catalogs from universities, transfer guides, and information about transfer policies and transfer requirements. This information can also be found online through the Transfer Center website at <http://www.greenriver.edu/student-affairs/college-transfer-center.htm>.

Students should be aware that courses with “Pass” grades may not satisfy the requirements in their major field. Students are responsible for knowing transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer. Students should also consult that catalog and website when meeting with their Green River advisor.

Many transfer institutions expect students to be “major ready” by the time they transfer. This means that students need to declare their majors earlier and carefully plan which courses will meet their distribution requirements, as well as meet the admission requirements for a particular field of study. For example, students who wish to major in business will need to include additional math, economics and accounting sequences in their coursework. Students are strongly encouraged to meet with their community college advisor, as well as an advisor from their transfer institution to verify their choices.

In most cases, universities will accept 90 credits. Green River is a member of the Inter-College Relations Commission (ICRC), and Green River’s AA-DTA, AB-DTA/ MRP, AFA-DTA, AM-DTA, APReN-DTA/MRP, AAS-T and AS-T degrees comply with ICRC recommendations for transfer degrees within Washington.

ICRC has developed a direct transfer agreement (DTA) with Washington community colleges. This ensures that students who complete a designated direct transfer degree at a community college will have satisfied all or most of the general education (or core) requirements at the various universities in the state. For most transfer students, this means that they can begin work on their specialized, major-area course work as soon as they transfer. International students must contact an advisor in the International Programs office to help create an educational plan specific to their needs. During the school year, representatives from various colleges and universities visit the campus to meet with students about transfer requirements. Students should watch for notices in campus publications, on Green River’s website, or call the Career and Advising Center at ext. 2641.

### ASSOCIATE IN APPLIED SCIENCE-TRANSFER DEGREE (AAS-T)

The Associate in Applied Science-Transfer degree (AAS-T) is built upon the technical courses required for job preparation but also includes a college-level general education component, common in structure for all such degrees. Further, the general education courses for the degree are drawn from the same list as those taken by students completing the Direct Transfer Agreement (DTA) associate degree or the Associate in Science-Transfer (AS-T) degree. The AAS-T degree generally will not be accepted in transfer in preparation for Bachelor of Arts or Bachelor of Science degrees although the general education component of the degree will be accepted in transfer. The following guidelines provide specific information about how this degree may be developed:

#### Degree requirements include:

- Seventy credits in the technical field as specified by the industry advisory committee
- Twenty credits of general education courses as follows:
  - 5 credits communication – Engl& 101.
  - 5 credits quantitative reasoning – College-level math with Intermediate Algebra, Math 097, as a prerequisite.
  - 10 credits in social science, humanities, or science – to be selected from the list of courses “generally accepted”.
- Earning a minimum of 90 credits with a minimum GPA of 2.0.

- Completing the minimum of 24 credits, including the last quarter of residence at Green River College.
- Earning no more than 25 percent of the credit requirements on a pass/no credit basis.
- The curriculum for each Associate in Applied Science-Transfer (AAS-T) degree is determined by the faculty of Green River College in conjunction with each discipline advisory committee from business and industry. The college advises students to consult the listing of the program of their choice for specific courses required.

### ASSOCIATE PRE-PROFESSIONAL DEGREE (A-PP)

While students in most college majors take the same general education requirements during their first two years, some majors demand more specialized subjects. The Associate Pre-Professional degree is designed for those students who need specific requirements that prevent them from satisfying the broad requirements of the AA, AB, AFA, AM, APReN, AAS-T, or AS-T degrees or that will enhance their program of study at the transfer institution.

If students wish to design a program to transfer to a specific department within a university, they should consult advisors at both Green River and their Transfer College or university. Students are responsible for finding out the unique requirements of the institution they plan to attend after Green River. A faculty advisor will help students plan an appropriate selection of classes to ensure that all requirements of the transfer institution are met; the program will be customized for the transfer institution of their choice. Students must present an Associate Pre-Professional degree plan to their faculty advisor for approval. The plan becomes a permanent part of the student’s record. Students should contact their faculty advisor for assistance in submitting an A-PP degree plan.

plan to their faculty advisor for approval. The plan becomes a permanent part of the student’s record. Students should contact their faculty advisor for assistance in submitting an A-PP degree plan.

### ACADEMIC CERTIFICATE (A-CERT)

A certificate in an academic area of study is awarded in recognition of an individual’s attainment of a body of knowledge that will strengthen the student’s educational experience. These skills are based on standards that faculty within that area have developed to emphasize or enhance a student’s major-ready preparation. Academic certificates, when used in conjunction with an Associate in Arts degree, will help emphasize a student’s educational experiences.

#### Certificate requirements include:

- A minimum GPA of 2.0
- Completion of a minimum of 25 percent of the credits required, including the last quarter in residence, at Green River.
- Earning no more than 10 credits on a pass/no credit basis. Students should be aware that courses with “Pass” grades may not satisfy the requirements in their major field.

Students are responsible for knowing the transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

## TRANSFER RIGHTS AND RESPONSIBILITIES

### Student Rights and Responsibilities

- Students have the right to clear, accurate, and current information about their transfer admission requirements, transfer admission deadlines, degree requirements, and transfer policies that include course equivalencies.
- Transfer and freshman-entry students have the right to expect comparable standards for regular admission to programs and comparable program requirements.
- Students have the right to seek clarification regarding their transfer evaluation and may request the reconsideration of any aspect of that evaluation. In response, the college will follow established practices and processes for reviewing its transfer credit decisions.
- Students who encounter other transfer difficulties have the right to seek resolution. Each institution will have a defined process for resolution that is published and readily available to students.
- Students have the responsibility to complete all materials required for admission and to submit the application on or before the published deadlines.

- Students have the responsibility to plan their courses of study by referring to the specific published degree requirements of the college or academic program in which they intend to earn a bachelor's degree.
- When a student changes a major or degree program, the student assumes full responsibility for meeting the new requirements.

### College and University Rights and Responsibilities

- Colleges and universities have the right and authority to determine program requirements and course offerings in accordance with their institutional missions.
- Colleges and universities have the responsibility to communicate and publish their requirements and course offerings to students and the public, including information about student transfer rights and responsibilities.
- Colleges and universities have the responsibility to communicate their admission and transfer related decisions to students in writing (electronic or paper).

### Washington 45

The list of courses in Washington 45 does not replace the Direct Transfer Agreement, Associate of Science Tracks I and II or any Major Related Program agreement, nor will it guarantee admission to a four-year institution.

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

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

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

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

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

#### NOTES:

- Although these courses are listed under categories, the actual course may satisfy a different general education category at a receiving institution.
- Green River does not offer all of these courses, and it is recommended that students work with an advisor to determine which courses can be incorporated into their Green River educational plan

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

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

## Associate In Arts Degree

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

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

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

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

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

#### Washington

Bastyr University	Seattle University
Central Washington University	The Evergreen State College
City University	Trinity Lutheran University
Cornish College of the Arts	University of Washington (some restrictions apply)
Eastern Washington University	University of Washington Bothell
Gonzaga University	University of Washington Tacoma
Heritage University	Washington State University
Northwest University	Washington State University Tri-Cities
Pacific Lutheran University	Washington State University Vancouver
Saint Martin's University	Western Washington University
Seattle Pacific University	
Witworth University	

#### Other States

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

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

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

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

## Associate In Arts Degree

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

**1. BASIC SKILLS** (15 credits) *Any course used to satisfy Basic Skills distribution may not be used to satisfy any other portion of the Associate in Arts degree requirements.*

**A. Communication Skills** (10 credits) *Courses in this area support the written communication learning outcome.*

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

**English** 126 or 127 or 128

**B. Quantitative Skills/Symbolic Reasoning** (5 credits) *Courses in this area support the quantitative and symbolic reasoning learning outcome.*

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

**Phil&** 120\*\*  
\*\*Students who have taken PHIL& 120 before Fall 2013, must also take Math 097 (or higher) and pass with a grade of 2.0 or higher; or have COMPASS placement of Math& 107 or higher)

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

**2. HUMANITIES/FINE ARTS/ENGLISH** (15 credits) *Minimum 15 credits from three separate areas. No more than 5 credits in foreign language at the 100 level. No more than 5 credits in performance/skills courses (all courses in bold type). Courses that fulfill the diversity requirement may also be used to fulfill a distribution requirement (all courses in italics). See Section 7 for a complete list of courses satisfying the diversity course requirements.*

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

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

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

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

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

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

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

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

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

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

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

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

**Music** 101, 103, 104, &105, 107, 108, 109, 110, **118, 119, 120, &121, &122, &123, 124, 125, 127, 128,**

**129, 130.1, 130.2, 130.3,** &131, &132, &133, **140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**

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

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

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

**3. SOCIAL SCIENCE** (15 credits) *Minimum 15 credits from three separate areas or minimum 15 credits from two separate areas with a 200-level course required within the two course emphasis. Courses that fulfill the diversity requirement (all courses in italics) may also be used to fulfill a distribution requirement. See Section 7 for a list of courses satisfying the diversity course requirements.*

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

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

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

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

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

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

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

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

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

**Social Science** 160, 211

**Sociology** &101, &201, 202, 205, 215, 220, 230, 240, 245, 260, 271

**4. NATURAL SCIENCE** (15 credits) *Minimum of 15 credits from at least two separate areas (except for completion of IDS 101, 102, and 103 sequence which will satisfy the full natural science and lab science requirement). Ten credits must be chosen from List A, including a minimum of 5 credits from lab sciences (courses designated in bold type). The additional 5 credits may be taken from either List A or List B.*

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

**Astronomy** &100 or **101**

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

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

**Environmental Science** 204

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

**Interdisciplinary Science** 101, **102, 103**

**Oceanography** &101

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

**LIST B**  
**Anthropology** &205

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

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

**Mathematics** 106, &107, 108, &141, &142, 147, &148, &151, &152, &153, &171, &172, &173, 210, 238, 240, &254, 256

**Nutrition** &101

**Philosophy** &120, 215

**5. ADDITIONAL CREDITS** (15 credits) *A minimum of 15 credits from courses listed in one or both of the following categories:*

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

**B. Generally Transferable Courses:**

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

**Early Childhood Education** &105

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

**Natural Resources** 100

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

**Lifetime Fitness/Wellness** (3 credits required). *One 2- or 3-credit course from List A is required. One course from List B must be taken if a 2-credit class from List A has been chosen:*

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

**LIST B: Physical Education** 101, 102, 103, 107, 108, 109, 110, 111, 112, 113, 114, 115, 117, 118, 119, 121, 122, 124, 125, 128, 129, 131, 132, 134, 136, 137, 138, 139, 140, 141, 143, 144, 147, 148, 149, 150, 158, 160, 165, 169, 193, 201, 202, 207, 210, 211, 212, 215, 216, 224, 231, 234, 236, 237, 248, 251, 253, 258

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

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

**B. Activity** (1-6 credits) *An activity is a fully instructed course of study that primarily involves the student in an activity that develops a technique or skill.*

**Art** 105, 106, 107,

111, 112, 113, 114, 119, 130, 219, 255, 256, 257

**Biology** 140

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

**Business Management** 103

**Dance** 101

**Drama** 111, 153

**Early Childhood Education** &120, 124, 175, 220

**Education** 210

**Geology** 150, 152, 153

**Health Education** 190

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

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

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

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

**Spanish** 115

**Technology** 100

**7. DIVERSITY REQUIREMENT** (1 course) *A minimum of one course from the following list must be taken to satisfy the diversity course requirement. In most cases, a course from the list below (in italics) also satisfies other distribution areas.*

**Ames** 100, 150

**Anthropology** &206, &210

**Communication Studies** 238, 265

**Criminal Justice** 220

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

**Film** 121, 191

**Geography** &200

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

**Humanities** 190, 191, 224

**Philosophy** 206, 238

**Political Science** &204

**Sociology** 205, 220

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

**8. ELECTIVES** (6-11 credits) *All courses numbered 100 or higher, with the exception of Basic Skills and Physical Education may be taken as electives. Courses should include preparation for a major and/or general interest/leisure-time activity.*

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

**Associate in Business Degree**  
Direct Transfer Agreement (AB-DTA) – 90 Credits

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

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

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

**1. BASIC SKILLS** (20 credits)

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

**A. Communication Skills:**

(10 credits)

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

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

**English 126** or **127** or **128**

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

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

**Mathematics &148** or **&151** and one of the following:

**Mathematics &141**, **&142**, **147**, **&148**, **&151**, **&152** or **&153**

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

*Reasoning requirement.*

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

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

**Art &100**, **105**, **106**, **107**, **109**, **110**, **111**, **112**, **113**, **114**, **115**, **119**, **120**, **130**, **133**, **135**, **212**, **213**, **214**, **219**, **251**, **252**, **253**, **255**, **256**  
**Chinese** 111, &121, &122, &123  
**Communication Studies** &102, &210, 212, 215, &220, &230, 238, 245, 265, 266

**Dance** 101, **102**, **103**, **110**, **204**  
**Drama** &101, 102, **111**, **151**, **152**, **153**, **154**, **157**  
**English** &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257

**Film** 120, 121, 122, 191  
**French** &121, &122, &123, &221  
**German** &121, &122, &123  
**Humanities** 100, 110, 133, 142, 146, 160, 186, 190, 191, 224

**Japanese** &121, &122, &123  
**Journalism** 101, 107, 150, 151, 152, 254

**Music** 101, 103, 104, &105, 107, 108, 109, 110, **118**, **119**, **120**, **&121**, **&122**, **&123**, **124**, **125**, **127**, **128**, **129**, **130.1**, **130.2**, **130.3**, &131, &132, &133, **140**, **141**, **142**, **218**, **219**, **220**, **&221**, **&222**, **227**, **228**, **229**, **230.1**, **230.2**, **230.3**, **&231**, **&232**

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

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

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

**3. SOCIAL SCIENCE** (20 credits)

*No more than 10 credits from any one discipline*

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

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

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

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

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

**Anthropology** &100, &204 &205, &206, &207, &210, 211, &216,

&234, &235, &236, 273

**Business Management** &101, 181  
**Criminal Justice** &101, &105, &110, &240

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

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

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

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

**Social Science** 160, 211

**Sociology** &101, &201, 202, 205, 215, 220, 230, 240, 245, 260, 271

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

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

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

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

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

**Astronomy** &100 or **&101**

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

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

**Environmental Science** 204

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

**Interdisciplinary Science** 101, **102**, **103**

**Nutrition** &101

**Oceanography** &101

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

**5. ACCOUNTING** (15 credits)

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

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

*Fitness-related classes:*

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

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

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

and documentation to the Degree Exception Committee.

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

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

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

**8. TRANSFERABILITY OF CREDITS**

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

## Associate in Fine Arts Degree in Art

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

The Associate in Fine Arts degree in Art is generally pursued by students who plan to transfer to a four-year university. However, completion of this degree does not guarantee admission as an art major. This degree offers students a broad foundation in advanced education or a career in art. Students granted the degree meet all of the requirements of the Washington state Direct Transfer Agreement (DTA).

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

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

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

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

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

**A. Communication Skills:** (10 credits)  
*Courses in this area support the written communication learning outcome.*

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

**B. Quantitative Skills/ Symbolic Reasoning:** (5 credits)  
*Courses in this area support the quantitative and symbolic reasoning*

*learning outcome.*

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

**Phil** &120\*\*

\*\* *Students who have taken Phil& 120 before Fall 2013, must also take Math 097 (or higher) and pass with a grade of 2.0 or higher; or have Compass placement of Math& 107 or higher)*

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

**2. HUMANITIES/FINE ARTS/ ENGLISH**

(15 credits). Three separate areas.

Choose 10 credits from the following:

**Art** 212 **or** 213 **or** 214

Photography 101 **or** 111

Choose 5 credits from following:

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

**Communication Studies** &102, &210,

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

265, 266

**Drama** &101

**English** &112, &113, &114, 115, 160,

161, 163, 165, 168, 180, 181, 183,

185, 187, 190, &220, &226, &227,

&228, &236, &237, &244, &245,

&246, 247, 248, 249, &254, &255,

&256, 257

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

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

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

**Humanities** 100, 110, 133, 142, 160,

186, 190, 191, 224

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

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

109, 110, &131, &132, &133

**Philosophy** &101, 102, 103, 104, 105,

110, 112, 114, 115, 160, 200, 206,

210, 220, 236, 238, 240, 243

**Spanish** 110, &121, &122, &123,

&221, &222, &223

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

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

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

**Anthropology** &100, &204, &205,

&206, &207, &210, 211, &216, &234,

&235, &236, 273

**Business** &101, &201

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

&240

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

**Geography** &100, 120, 123, 190,

&200, 201, 205, 210

**History** 101, 102, 103, 120, 122, 135,

&136, &137, &214, &215, 220, 224,

226, 228, 230, 231, 232, 233, 235,

237, 240, 245, 250

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

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

**Social Science** 160, 211

**Sociology** &101, &201, 202, 205, 215, 220, 230, 240, 245, 260, 271

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

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

**LIST A**

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

**Astronomy** &100 **or** &101

**Biology** &100, **103, 110, 127, &160,**

**&211, &212, &213, &241, &242,**

**&260**

**Chemistry** &121, &131, &140, &161,

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

**Environmental Science** 204

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

**&208**

**Interdisciplinary Science** **101, 102,**

**103**

**Oceanography** &101

**Physics** 107, **110, &114, &115,**

**&116, 154, 155, 156, &221, &222,**

**&223, 225, 229**

**LIST B**

**Anthropology** &205

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

**Engineering** &104, 106, 140, &204,

&214, &215, &224, &225

**Mathematics** 106, &107, 108, &141,

&142, 147, &148, &151, &152, &153,

&171, &172, &173, 210, 238, 240,

&254, 256

**Nutrition** &101

**Philosophy** &120, 215

**5. SPECIFIC REQUIREMENTS** (43

credits)

**LIST A** (20 credits)

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

**LIST B—Art Electives** (23 credits)

*Class selection depends on the student's area of study. After consultation with an Art advisor, a minimum of 23 credits are required from the following:*

**Art** 106, 107, 110, 111, 115, 120, 122,

130, 133, 135, 150, 177, 178, 179,

180, 212\*, 213\*, 214\*, 219, 251,

252, 253, 255, 256, 257, 275, 276,

277, 294, 295, 296, 297, 298, 299

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

113, 197

\* *Students cannot use this course*

*if previously taken under a different category*

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

**Physical Education** 101, 102, 103,

111, 131, 149, 160, 165, 169

*No more than 3 credits total of physical education coursework may be applied to the AFA-DTA degree.*

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

**7. TRANSFERABILITY OF CREDITS**

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



## Associate in Math Education

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

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

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

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

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

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

### 1. BASIC SKILLS (15 credits)

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

**A. Communication Skills** (10 credits)  
*Courses in this area support the written communication learning outcome.*

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

**English** 126 **or** 127 **or** 128

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

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

**Mathematics** &151

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

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

**A. Communication Studies** &220

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

**Art** &100, **105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 130, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257**  
**Chinese** 111, &121, &122, &123  
**Communication Studies** &102, &210, 212, 215, &230, 238, 245, 265, 266  
**Dance** 101, **102, 103, 110, 204**  
**Drama** &101, **102, 111, 151, 152, 153, 154, 157**

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

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

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

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

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

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

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

**Music** 101, 103, 104, &105, 107, 108, 109, 110, **118, 119, 120, &121, &122, &123, 124, 125, 127, 128, 129, 130.1, 130.2, 130.3,** &131, &132, &133, **140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**

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

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

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

### 3. SOCIAL SCIENCE (15 credits)

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

**A. Psychology** &100 (5 credits)

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

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

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

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

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

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

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

**Social Science** 160, 211

**Sociology** &101, &201, 202, 205, 215, 220, 230, 240, 245, 260, 271

### 4. NATURAL SCIENCES (15 credits)

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

**A. Mathematics** &152

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

**Astronomy** &101

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

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

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

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

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

**Education** &205

**Health Education** 190

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

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

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

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

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

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

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

### 7. TRANSFERABILITY OF CREDITS

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

## Associate in Pre-Nursing Degree

Direct Transfer Agreement/Major Related Program (APreN-DTA/MRP) – Minimum of 90-91 Credits

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

To earn this degree, students must complete a minimum of 90-91-quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0 and earn a minimum of 24 credits, including the last quarter, in residence at Green River College.

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

**1. BASIC SKILLS** (15 credits)**A. Communication Skills:** (10 credits)

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

**English** &101 **and**  
**English** 127 **or** 128

**B. Quantitative Skills/Symbolic Reasoning:** (5 credits)

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

**Mathematics** 256

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

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

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

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

**Art** &100, **105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 130, 133, 135, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257**  
**Chinese** 111, &121, &122, &123  
**Communication Studies** &102, &210, 212, 215, &230, 238, 245, 265, 266  
**Dance** **101, 102, 103, 110, 204**  
**Drama** &101, 102, **111, 151, 152, 153, 154, 157**

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

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

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

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

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

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

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

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

108, 109, 110, **118, 119, 120, &121, &122, &123, 124, 125, 127, 128, 129, 130.1, 130.2, 130.3,** &131, &132, &133, **140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**

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

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

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

**3. SOCIAL SCIENCE** (15 credits)**A. Psychology** &100**B. Psychology** &200**C. A minimum of 5 credits:**

**Sociology** &101, &201, 202, 205, 215, 220, 230, 240, 245, 260 **or** 271

**4. NATURAL SCIENCES**

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

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

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

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

**D. Nutrition** & 101

**5. ADDITIONAL COURSES**

*Select 10 credits from the humanities/fine arts/English, social science, and natural science requirement of the AA degree.*

**6. TRANSFERABILITY OF CREDITS**

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

**Biology, Environmental Science, Chemistry, Geology or Earth Science**

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

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

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

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

**1. BASIC SKILLS** (20 credits)

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

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

Courses in this area support the written communication learning outcome.

**English** &101

After consultation with a Science advisor, five additional credits are recommended from the following:

**English 126 or 127 or 128**

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

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

**Mathematics** &151, &152 **and** (&153 or 256)

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

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

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

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

**Chinese** 111, &121, &122, &123  
**Communication Studies** &102, &210, &220, 212, 215, &230, 238, 245, 265, 266

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

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

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

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

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

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

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

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

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

**Music** 101, 103, 104, &105, 107, 108, 109, 110, **118, 119, 120, &121, &122, &123, 124, 125, 127, 128, 129, 130.1, 130.2, 130.3,** &131, &132, &133, **140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**

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

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

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

**3. SOCIAL SCIENCE**

A minimum 5 credits from the following:

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

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

**Business Management** &101, &201

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

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

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

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

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

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

**Social Science** 160, 211

**Sociology** &101, &201, 202, 205, 215, 220, 230, 240, 245, 260, 271

**4. SPECIFIC REQUIREMENTS** (50 credits)

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

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

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

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

**Biology** &211, &212 **and** &213 **or**

**Physics** &114, &115 **and** &116 **or**

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

**C. Natural Science**

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

**Anatomy-Physiology** 210

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

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

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

**Environmental Science** 204

**Geology** &101, 107, 206

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

**Oceanography** &101

**Philosophy** &120, 215

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

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

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

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

**6. ELECTIVES** (2-3 credits)

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

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

**7. TRANSFERABILITY OF CREDITS**

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

## Engineering, Computer Science, Physics or Atmospheric Science

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

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

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

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

**1. BASIC SKILLS** (20 credits)

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

**A. Communication Skills:** (5 credits)

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

**English** &101

**B. Quantitative Skills/Symbolic Reasoning:** (15 credits)

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

**Mathematics** &151 **and** &152 **and** (&153 **or** 256)

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

*Select 15 credits from the humanities/fine arts/English and social science with at least five (5) credits taken from each and from three (3) separate areas.*

**A. Humanities/fine arts/English**

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

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

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

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

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

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

**English** &112, &113, &114, 115, 160, 161, 163, 164, 165, 168, 180, 181, 183, 185, 187, 190, &220,

&226, &227, &228, &236, &237,

&244, &245, &246, 247, 248, 249,

&254, &255, &256, 257

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

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

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

**Humanities** 100, 110, 133, 142, 146,

160, 186, 190, 191, 224

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

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

254

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

108, 109, 110, **118, 119, 120, &121,**

**&122, &123, 124, 125, 127, 128,**

**129, 130.1, 130.2, 130.3,** &131,

&132, &133, **140, 141, 142, 218,**

**219, 220, &221, &222, 227, 228,**

**229, 230.1, 230.2, 230.3, &231,**

**&232**

**Philosophy** &101, 102, 103, 104, 105,

110, 112, 114, 115, 160, 200, 206,

210, 220, 236, 238, 240, 243

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

**Spanish** 110, &121, &122, &123,

&221, &222, &223

**B. Social Science**

*A minimum 5 credits from the following:*

**American Minority and Ethnic**

**Studies** 100, 150, 211

**Anthropology** &100, &204, &205,

&206, &207, &210, 211, &216, &234,

&235, &236, 273

**Business** &101, &201

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

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

**Geography** &100, 120, 123, 190,

&200, 201, 205, 210

**History** 101, 102, 103, 120, 122, 135,

&136, &137, &214, &215, 220, 224,

226, 228, 230, 231, 232, 233, 235,

237, 240, 245, 250

**Political Science** &101, &200, &202,

&203, &204, 207, 209

**Psychology** &100, &180, &200, 201,

209, &220, 225, 240

**Social Science** 160, 211

**Sociology** &101, &201, 202, 205,

215, 220, 230, 240, 245, 260, 271

**3. SPECIFIC REQUIREMENTS**

(50 credits)

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

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

(15 credits)

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

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

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

&262 **or** &263

**C. Natural Science**

*Select 29 credits from the following after consultation with a science/engineering advisor.*

**Anatomy-Physiology** 210

**Biology** &160, &211, &212, &213,

&241, &242, &260

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

&262, &263

**Computer Science** 120, &131, 132,

&141, 145

**Engineering** 106, 120, 140, &214,

&215, &224, &225, 250

**Environmental Science** 204

**Geology** &101, 206

**Mathematics** 106, &141, &142,

&153, 238, 240, &254, 256

**Philosophy** &120, 215

**Physics** &114, &115, &116, 154, 155,

156, &221, &222, &223, 225, 229

**4. LIFETIME FITNESS/WELLNESS**

(2-3 credits) *Select one course from the following:*

**Physical Education** 101, 102, 103,

111, 131, 149, 160, 165, 169

*Degree exceptions for fitness/wellness courses must include*

*medical documentation submitted to Disability Support Services (DSS)*

*and documentation to the Degree Exception Committee.*

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

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

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

**6. TRANSFERABILITY OF CREDITS**

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

## Associate in Bioengineering and Chemical Pre-Engineering

Associate in Science Transfer Degree–Option 2/Major Related Program (AST-2/MRP) Minimum of 104-105 Credits

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

To earn this degree, students must complete 104-105 quarter credits in courses numbered 100 or above (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be aware that courses with “Pass” grades may not satisfy the requirements in their major field. Students must attain a cumulative grade point average of 2.0, and earn a minimum of 24 credits, including the last quarter in residence, at Green River College. Students should include some 200-level classes in their course of study.

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

### 1. BASIC SKILLS (30 credits)

**A. Communication Skills:** (5 credits)  
*Courses in this area support the written communication learning outcome.*

**English** &101

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

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

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

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

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

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

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

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

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

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

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

**Drama** &101, 102, 111, 151, 152, 153, 154, 257

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

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

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

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

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

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

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

**Music** 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 125, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232

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

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

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

#### B. Social Science

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

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

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

**Business Management** &101, &201  
**Criminal Justice** &101, &105, &110, &240

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

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

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

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

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

**Social Science** 160, 211

**Sociology** &101, &201, 202, 205, 215, 220, 230, 240, 245, 260, 271

### 3. SPECIFIC REQUIREMENTS

(59-60 credits)

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

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

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

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

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

**Biology** &100

**Chemistry** &263\*

**Computer Science** 120, &131, 132, &141, or 145

**Engineering** 100, 120, &204, &224, 250

**English** 128

**Mathematics** 240

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

### 4. TRANSFERABILITY OF CREDITS

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

## Associate in Computer or Electrical Pre-Engineering

Associate in Science Transfer Degree–Option 2/Major Related Program (AST-2/MRP) Minimum of 98 Credits

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

To earn this degree, students must complete 98-quarter credits in courses numbered 100 or above (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be aware that courses with “Pass” grades may not satisfy the requirements in their major field. Students must attain a cumulative grade point average of 2.0, and earn a minimum of 24 credits, including the last quarter in residence, at Green River College. Students should include some 200-level classes in their course of study.

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

**1. BASIC SKILLS** (30 credits)**A. Communication Skills** (5 credits)

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

**English** &101

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

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

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

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

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

**A. Humanities/fine arts/ English**

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

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

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

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

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

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

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

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

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

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

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

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

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

**Music** 101, 103, 104, &105, 107, 108, 109, 110, **118, 119, 120, &121, &122, &123, 124, 125, 127, 128, 129, 130.1, 130.2, 130.3,** &131, &132, &133, **140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**

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

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

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

**B. Social Science**

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

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

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

**Business Management** &101, &201  
**Criminal Justice** &101, &105, &110, &240

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

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

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

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

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

**Social Science** 160, 211

**Sociology** &101, &201, 202, 205, 215, 220, 230, 240, 245, 260, 271

**3. SPECIFIC REQUIREMENTS**

(53 credits)

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

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

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

**C. Select 10 credits**

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

**D. Select 12 credits**

**Computer Science** 120

**Engineering** 100, 106, 120, &204, 250

**E. \*Select 10 credits**

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

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

**English** 128

**Mathematics** 240

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

**4. TRANSFERABILITY OF CREDITS**

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

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

**Art - Advanced Studies**  
**Academic Certificate**  
**31-33 Credits**

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

Note: This certificate does not qualify for federal financial aid or VA funding, unless the certificate or courses is applied towards an Associate in Arts, Associate in Fine Arts in Art, or Associate Development degree.

**Contact:** Paul Metivier, ext. 4766 pmetivier@greenriver.edu Gary Oliveira, ext. 4663 goliveira@greenriver.edu

Cindy Small, ext. 4203 csmall@greenriver.edu Patrick Navin, ext. 4552 pnavin@greenriver.edu

Dept./No.	Course Title	Credits
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**Required Courses:**

*Art 180	The Artist's Portfolio	3
*Art 199 or Art 275, 276, 277 or Art 294, 295, 296 or Art 297, 298, 299 Photo 197	Independent Study-Design or Independent Study-Ceramics 1-3 or Independent Study-Painting 1-3 or Independent Study-Drawing 1-3 or Independent Study-Photography	(1-5) (1-5) (1-5) (1-5) 3-5

**Select a minimum of 25 credits from the following courses:** 25

Art 106	Intermediate Drawing	(5)
Art 107	Advanced Drawing	(5)
Art 110	Intermediate Design and Color	(5)
Art 119	3-Dimensional Design	(5)
Art 219	Advanced 3-Dimensional Design	(5)
Art 251	Ceramics 1	(5)
Art 252	Ceramics 2	(5)
Art 255	Advanced Painting 1	(5)
Art 256	Advanced Painting 2	(5)
Photo 103	Advanced Digital Photography	(5)
*Photo 113	Advanced Digital Photography	(5)

**All Art History classes are recommended**

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

**Art - Ceramics**  
**Academic Certificate**  
**43 Credits**

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

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

**Contact:** Paul Metivier, ext. 4766 pmetivier@greenriver.edu

Dept./No.	Course Title	Credits
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Art 105	Beginning Drawing	5
Art 109	Beginning Design	5
Art 114	Pottery 1	5
Art 115	Pottery 2	5
Art 119	3-Dimensional Design	5

*Art 180	The Artist's Portfolio	3
Art 251	Ceramics 1	5
Art 252	Ceramics 2	5
Art 253	Ceramics 3	5

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

Art 110	Intermediate Design and Color	(5)
Art 219	Advanced 3-Dimensional Design	(5)
Photo 101	Beginning Black and White Photography	(5)
*Photo 111	Advanced Digital Photography	(5)

**All Art history classes are recommended:**

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

**Art - Design**  
**Academic Certificate**  
**39-43 Credits**

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

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

**Contact:** Paul Metivier, ext. 4766 pmetivier@greenriver.edu Gary Oliveira, ext. 4663 goliveira@greenriver.edu

Cindy Small, ext. 4203 csmall@greenriver.edu Patrick Navin, ext. 4552 pnavin@greenriver.edu

Dept./No.	Course Title	Credits
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Art 105	Beginning Drawing	5
Art 106	Intermediate Drawing	5
Art 109	Beginning Design	5
Art 110	Intermediate Design and Color	5
*Art 180	The Artist's Portfolio	3
Photo 111	Beginning Digital Photography	5

**Complete three (3) courses from the following list:**

Art 111	Painting 1	(5)
Art 119	3-Dimensional Design	(5)
*Art 120	Introduction to Graphic Design	(5)
Art 122	Visual Concepts of Web Design	(5)
Art 135	Introduction to Screen Printing	(3)
*Art 150	Literary/Art Journal Design	(3)
Photo 101	Beginning Black and White Photography	(5)

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

*Art 177-179	Art Work Experience 1-3	1-3
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*(Based on interview and availability, limited enrollment)*

**All art history classes are recommended:**

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

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### Art - Interdisciplinary Academic Certificate 41-43 Credits

This certificate program is designed for art educators and those who want to explore various disciplines.

Note: This certificate does not qualify for federal financial aid or VA funding, unless the certificate or courses is applied towards an Associate in Arts, Associate in Fine Arts in Art, or Associate Development degree.

**Contact:** Paul Metivier, ext. 4766      Gary Oliveira, ext. 4663  
pmetivier@greenriver.edu      goliveira@greenriver.edu

Cindy Small, ext. 4203      Patrick Navin, ext. 4552  
csmall@greenriver.edu      pnavin@greenriver.edu

Dept./No.	Course Title	Credits
Art 105	Beginning Drawing	5
Art 109	Beginning Design	5
Art 111	Painting 1	5
Art 119	3-Dimensional Design	5
*Art 180	The Artist's Portfolio	3
Art 251	Ceramics 1	5
Photo 101	Beginning Black and White Photography	5
Photo 111	Beginning Digital Photography	5

**Choose one course from the following list:** 3-5

Art 106	Intermediate Drawing	(5)
Art 110	Intermediate Design and Color	(5)
*Art 120	Introduction to Graphic Design	(5)
Art 130	Watercolor Painting	(3)
Art 133	Portrait Drawing	(3)
Art 135	Introduction to Screen Printing	(3)
*Art 150	Literary/Art Journal Design	(3)
Art 252	Ceramics 2	(5)
Art 255	Advanced Painting 1	(5)
Photo 102	Intermediate Photography	(5)
*Photo 112	Intermediate Digital Photography	(5)

**All Art History classes are recommended:**  
Art 212, 213, 214 History of Art 1-3 5 ea

*\*Course transfers as elective only. Consult with your transfer institution.*

### Art - Photography Academic Certificate 43 Credits

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

Note: This certificate does not qualify for federal financial aid or VA funding, unless the certificate or courses is applied towards an Associate in Arts, Associate in Fine Arts in Art, or Associate Development degree.

**Contact:** Patrick Navin, ext. 4552  
pnavin@greenriver.edu

Dept./No.	Course Title	Credits
Photo 101	Beginning Black and White Photography	5
Photo 102	Intermediate Photography	5
Photo 103	Advanced Photography	5
Photo 111	Beginning Digital Photography	5
*Photo 112	Intermediate Digital Photography	5
*Photo 113	Advanced Digital Photography	5
Art 105	Beginning Drawing	5
Art 109	Beginning Design	5
*Art 180	The Artist's Portfolio	3

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

Art 106	Intermediate Drawing	(5)
Art 110	Intermediate Design and Color	(5)
*Art 120	Introduction to Graphic Design	(5)
*Art 150	Literary/Art Journal	(3)

**All art history classes are recommended:**  
Art 212, 213, 214 History of Art 1-3 5 ea

*\*Courses will transfer as elective only. Consult with your transfer institution.*

### Art - Studio Academic Certificate 43 Credits

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

Note: This certificate does not qualify for federal financial aid or VA funding, unless the certificate or courses is applied towards an Associate in Art, Associate in Fine Arts in Art, or Associate Development degree.

**Contact:** Cindy Small, ext. 4203  
csmall@greenriver.edu

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

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

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

**All art history classes are recommended:**  
Art 212, 213, 214 History of Art 1-3 5 ea

*\*Courses will transfer as elective only. Consult with your transfer institution.*

### Broadcasting Associate in Pre-Professional Degree 90 Credits

Broadcasting students may earn a one-year certificate in Broadcasting or a two-year Associate in Pre-Professional degree.

**Contact:** Tom Evans Krause, ext. 2190  
tkrause@greenriver.edu

Dept./No.	Course Title	Credits
Cmst& 102 or Cmst& 220	Introduction to Mass Media or Public Speaking	5
Engl& 101	English Composition	5
Engl 126 or Engl 127 or	Writing: Humanities or Writing: Social Science or	
Engl 128	Research Writing: Science/Engineering/Business	5
Journ 150	Introduction to Broadcasting	3
Journ 151	Radio Production	3



Journ 152	Radio and the Community	3
Journ 153	Broadcast Newswriting	3
Journ 156	Broadcast and New Media Announcing	3
Journ 162	Introduction to Broadcast Technology	3
Journ 254	Advanced Radio Production	3
Journ 255	Marketing the Broadcast Media	3
Math	Any Math course 100 or higher	5
Natural Science	Two separate areas including one lab	10
*Include one fitness-related course		
Lifetime/		
Fitness Wellness	Include one fitness related course	2-3
Humanities/Fine Arts		
English	One additional course (not Cmst or Journ)	5
†Social Science	Three separate areas	15
† Must take one course from the Diversity list as offered in Humanities/Fine Arts or Social Science requirement in the AA degree.		
Electives	(see Recommended Electives below)	3-5

**Select a minimum of 10 credits from the following group of Journalism courses: 10**

- \*Must take one course from Journ 110, 111, 112, and
- \*Must take one course from Journ 120, 121, 122, and
- \*Must take one course from Journ 205, 206, 207

Journ 110 or	Radio Laboratory 1 or	
Journ 111 or	Radio Laboratory 2 or	
Journ 112	Radio Laboratory 3	(1-5)
Journ 120 or	Digital Radio Laboratory 1 or	
Journ 121 or	Digital Radio Laboratory 2 or	
Journ 122	Digital Radio Laboratory 3	
Journ 205 or	Radio Management or	(1-5)
Journ 206 or	Radio Workshop or	
Journ 207	Advanced Radio Workshop	(1-5)

**Electives:** Choose from the following to total 90 credits.

Cmst& 102	Introduction to Mass Media	(5)
Cmst& 220	Public Speaking	(5)
Cmst 215	Critical Analysis of Media	(5)
Journ 251-253	Journalism Internship 1-3	(3-9)
*†Humanities/		
Fine Arts/English	One additional course (not Cmst or Journ)	2-3

**Broadcasting  
Academic Certificate  
40-49 Credits**

Broadcasting students may earn a one-year certificate in Broadcasting or a two-year Associate in Pre-Professional degree.

**Contact:** Tom Evans Krause, ext. 2190  
TKrause@greenriver.edu

Dept./No.	Course Title	Credits
Engl& 101	English Composition	5
Journ 150	Introduction to Broadcasting	3
Journ 151	Radio Production	3
Journ 152	Radio and the Community	3
Journ 153	Broadcast Newswriting	3
Journ 156	Broadcast and New Media Announcing	3
Journ 162	Introduction to Broadcast Technology	3
Journ 254	Advanced Radio Production	3
Journ 255	Marketing the Broadcast Media	3
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS score or completion of Read 094)	0-5

**Select a minimum of 10 credits from the following group of Journalism courses: 10**

- \*Must take one course from Journ 110, 111, 112, and
- \*Must take one course from Journ 120, 121, 122, and
- \*Must take one course from Journ 205, 206, 207

Journ 110 or	Radio Laboratory 1 or	
Journ 111 or	Radio Laboratory 2 or	
Journ 112	Radio Laboratory 3	(1-5)
Journ 120 or	Digital Radio Laboratory 1 or	
Journ 121 or	Digital Radio Laboratory 2 or	
Journ 122	Digital Radio Laboratory 3	(1-5)
Journ 205 or	Radio Management or	
Journ 206 or	Radio Workshop or	
Journ 207	Advanced Radio Workshop	(1-5)

**Suggested Electives:** Select 1-5 credits from the following courses to total 40-49 credits:

Cmst& 102	Introduction to Mass Media	(5)
Cmst& 220	Public Speaking	(5)
Coop 171	Work Experience Seminar	(1)
Journ 251-253	Journalism Internship 1-3	(3-9)

**Communication Studies  
Academic Certificate  
20 Credits**

Courses used to fulfill requirements in one section may not also be used to fulfill requirements in another section.

**Contact:** Will Scott, ext. 4281      Kate Katims, ext. 4283  
wscott@greenriver.edu      kkatims@greenriver.edu

Dept./No.	Course Title	Credits
Select 10 credits from the following courses:		10
Cmst& 210 or	Interpersonal Communication or	
Cmst& 230	Small Group Communication	(5)
Cmst& 220	Public Speaking	(5)
Select a minimum of 10 credits from the following courses:		10
*Cmst 100	Fundamentals of Oral Communication	(5)
Cmst& 210 or	Interpersonal Communication or	(5)
Cmst& 230	Small Group Communication	(5)
*Cmst& 177-179 and	Communication Studies	
	Work Experience 1-3 and	(1-5)
Coop 171	Work Experience Seminar	(1)
Cmst 212	Persuasion and Propaganda	(5)
Cmst 215	Critical Analysis of Media	(5)
Cmst 238	Intercultural Communication	(5)
Cmst 245	Argumentation	(5)
*Cmst 299	Independent Study-Communication Studies	(2-5)

\*Course will transfer as elective only. Consult with your transfer institution.

**Advanced Communication Studies  
Academic Certificate  
30 Credits**

Courses used to fulfill requirements in one section may not also be used to fulfill requirements in another section.

**Contact:** Will Scott, ext. 4281      Kate Katims, ext. 4283  
wscott@greenriver.edu      kkatims@greenriver.edu

Dept./No.	Course Title	Credits
<b>Required: 10 credits</b>		<b>10</b>
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220	Public Speaking	(5)
Cmst& 230	Small Group Communication	(5)
Select a minimum of 10 credits from the following courses:		10
Cmst& 210 or	Interpersonal Communication or	
Cmst& 230	Small Group Communication	(5)
Cmst 212	Persuasion and Propaganda	(5)
Cmst 215	Critical Analysis of Media	(5)

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Cmst 238	Intercultural Communication	(5)
Cmst 245	Argumentation	(5)

**Select a minimum of 10 credits from the following courses: 10**

Art 109	Beginning Design	(5)
Art 120	Introduction to Graphic Design	(5)
*Bus 159	Professional Selling	(5)
*Cmst 100	Fundamentals of Oral Communication	(5)
Cmst& 102	Introduction to Mass Media	(5)
*Cmst 177-179 and	Communication Studies Work Experience 1-3 and	
*Coop 171	Work Experience Seminar	(1-5)
Cmst 212	Persuasion and Propaganda	(5)
Cmst 215	Critical Analysis of Media	(5)
Cmst 238	Intercultural Communication	(5)
Cmst 245	Argumentation	(5)
*Cmst 299	Independent Study–Communication Studies	(1-5)
*Journ 110 or	Radio Laboratory 1 or	
*Journ 111 or	Radio Laboratory 2 or	
*Journ 112	Radio Laboratory 3	(1-5)
Journ 150	Introduction to Broadcasting	(3)
Journ 151	Radio Production	(3)
*Journ 205 or	Radio Management or	
*Journ 206 or	Radio Workshop or	
*Journ 207	Advanced Radio Workshop	(1-5)

\*Course will transfer as elected only. Consult with your transfer institution.

### Diversity Studies Academic Certificate 20 Credits

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

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

•Students must take at least four courses totaling 20 credits, including at least one core courses (see list below) and one course from each of the three sponsoring divisions: Social Science, Humanities, and English.

•Students must have an accumulative G.P.A. of 2.0 for the classes chosen for the certificate; only one class can have a pass/no credit designation.

•Students seeking the Gender Studies certificate or the Hispanic Studies certificate may use no more than two courses from that certificate to fulfill the Diversity certificate.

**Contact:** Michael Moreno, ext 4244  
mmoreno@greenriver.edu

Dept./No.	Course Title	Credits
<b>Required Course:</b>		
Select at least one of the following courses (5 credits)		
Ames 100	Introduction to American Minority and Ethnic Studies	(5)
Engl 247	American Ethnic Literature	(5)

Phil 238	Introduction to the Philosophy of Human Rights	(5)
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**Additional Courses: 15**

Select from the following courses to total 20 credits:

Ames 150	Race and Ethnicity in the Pacific Northwest	(5)
Anth& 206	Cultural Anthropology	(5)
Anth& 210	Indians of North America	(5)
CJ 220	Multicultural Diversity in Criminal Justice	(5)
Cmst 238	Intercultural Communication	(5)
Cmst 265	Introduction to Popular Culture	(5)
Engl 160	Literature By and About Women	(5)
Engl 161	Cultures of Desire	(5)
Engl 163	The Poetics of Rap and Hip Hop	(5)
Engl 165	Introduction to the Myths of the World	(5)
Engl 168	Introduction to Irish Literature	(5)
Engl 247	American Ethnic Literature	(5)
Engl 248	African American Literature	(5)
Engl 249	U.S. Latino Literature	(5)
Engl& 256	World Literature III: 19th-21st Century	(5)
Engl 257	Non-Western World Literature	(5)
Film 121	Contemporary American Film	(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)

### Gender Studies Academic Certificate 20 Credits

This program is a 20-credit interdisciplinary certificate designed to encourage students to explore gender from multiple perspectives and provide an academic foundation in the study of sex and gender. Students use this certificate as a basis for further studies at a four-year institution and/or as a means to further their professional career goals in fields such as human resources, social work, etc.

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

**Contact:** Sandra Johanson, ext. 4504  
sjohanson@greenriver.edu

Dept. /No.	Course Title	Credits
<b>Required Course:</b>		
Human 160 or	Introduction to the Study of Gender in the Humanities or	
S Sci 160	Introduction to the Study of Gender	5
<b>Additional Course(s): Select 15 credits from the following courses: 15</b>		
Engl 160	Literature By and About Women	(5)
Hist& 215	Women in United States History	(5)
Human 224	Women and World Religions	(5)
Phil 206	Gender and Philosophy	(5)

Psyc& 180	Human Sexuality	(5)
Soc 220	Sex and Gender in Society	(5)

**Hispanic Studies  
Academic Certificate  
20 Credits**

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

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

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

**Contact:** Marisela Fleites-Lear, ext. 4409  
mfleites-lear@greenriver.edu

Dept./No.	Course Title	Credits
<b>Required Course:</b>		
Hist 233	History of Latin America	5
Span& 222	Spanish V	5
<b>Additional Courses:</b> <i>Select 10 credits from the following courses:</i>		10
Engl 249	U.S. Latino Literature	(5)
Hist 228	Latinos in the United States	(5)
Human 190	Latin American Culture Through Literature	(5)
Human 191	Latin America in Film	(5)
Span& 223	Spanish VI	(5)

**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.

**Contact:** Monica Paulson Priebe      Rob Sjogren, ext. 4582  
mpriebe@greenriver.edu      rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
<b>A minimum of 98 credits must be earned from the following categories:</b>		
<b>Natural Resources core classes: (37 Credits)</b>		
GIS 192	GIS for Natural Resources	(5)
Natrs 100	Introduction to Natural Resources	(5)
Natrs 180	Natural Resources Measurements	(5)
Natrs 182	Aerial Photo, GIS and Forest Navigation	(8)
Natrs 183	Tree and Shrub Identification	(5)
Natrs 186	Bio-Invasions: Invasive Species	

	Management	(4)
Natrs 210	Introduction to Soils	(5)

<b>English—required:</b>		10
Engl& 101	English Composition I	(5)
Engl 128	Research Writing: Science/Engineering /Business	(5)

<b>Humanities—required:</b>		20
Cmst& 220	Public Speaking	(5)
Cmst& 230	Small Group Communication	(5)
Phil 115	Critical Thinking	(5)
Phil 243	Environmental Ethics	(5)

<b>Mathematics—minimum of 5 credits from the following:</b>		5
Math& 141	Precalculus 1	(5)
Math& 142	Precalculus 2	(5)
Math& 151	Calculus I	(5)
Math& 152	Calculus II	(5)
Math 256	Statistics for Business and Social Science	(5)

<b>Science—minimum of 15 credits from the following:</b>		15
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)
Geol& 208	Geology of the Northwest	(5)
Phys& 110	Concepts of the Physical World	(5)

<b>Social Science—minimum of 5 credits from:</b>		5
Econ& 201	Micro Economics	(5)
Econ& 202	Macro Economics	(5)
Geog 120	Introduction to Physical Geography	(5)
Soc& 101	Introduction to Sociology	(5)

<b>Wellness (1 credit)</b>		
P E 113	Group Dynamic Activities	1
(taken concurrently with Natrs 182)		

<b>Additional Credits (5 credits)</b>		
Bus 202	Introduction to Project Management	5

**PROFESSIONAL/TECHNICAL DEGREES AND CERTIFICATES**

There are 137 different job-training programs at Green River, each designed to prepare students for immediate employment.

Professional/technical programs are offered in business and office occupations, health sciences, the trades and technical fields. In each program, there is hands-on training using current technology. Expert instructors provide individual attention in classrooms, labs and workshops. Each program is guided by an industry advisory committee to ensure that training meets the needs of local business and industry. Training programs range in length from one quarter (11 weeks) to two years or more. In some programs, classes are designed to provide up-to-date information to people already working in industry who need to learn new technology.

**BACHELOR IN APPLIED SCIENCE DEGREE (BAS)**

The Bachelor of Applied Science degrees are practical, career-oriented degrees designed to meet the needs of the economy in specific high-demand occupations. The BAS degree serves professional and technical degree holding students who have completed an associate of applied science degree or it's equivalent. Associate degrees can vary from a two-year management track on top of a two-year technical education or a continuation of a technical degree.

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Students who have completed two-year professional-technical degrees can add on junior and senior levels courses.

### Degree requirements include:

1. Earning a minimum of 180 credits with a minimum GPA of 2.5 or higher.
2. Must have earned an associate degree with a cumulative GPA of 2.5 or higher.
3. Completing a minimum of 24 credits, including the last quarter of residence at Green River.
4. Earning no more than 25 percent of credits requirements on a pass/no credit basis.

The curriculum for each BAS degrees is determined by the faculty of Green River College and in some cases an advisory committee from business and industry. Consult the listing of the program of your choice for specific classes required.

### ASSOCIATE IN APPLIED ARTS DEGREE (AAA) and

### ASSOCIATE IN APPLIED SCIENCE DEGREE (AAS)

The Associate in Applied Arts and the Associate in Applied Science degrees are designed for students in professional/technical programs. The only difference between these degrees is the field of study. Applied Arts degrees are generally awarded for business and business-related fields; Applied Science degrees are granted in health science, technical and trade subjects. These professional/technical degrees are designed for students who want to prepare for employment. In some cases, credits earned may be applied to study at a four-year college or university.

### Degree requirements include:

1. Earning a minimum of 90 credits with a minimum GPA of 2.0.
2. Completing a minimum of 24 credits, including the last quarter of residence, at Green River.
3. Earning no more than 25 percent of the credit requirements on a pass/no credit basis.

The curriculum for each professional/technical program is determined by the faculty of Green River College and in some cases an advisory committee from business and industry. Consult the listing of the program of your choice for specific classes required.

### PROFESSIONAL/TECHNICAL CERTIFICATE (Cert)

Professional/technical certificates are awarded in some programs. Professional/technical certificates are designed for students who want to prepare for immediate employment. The certificate includes specific courses in your area of study, as well as related instruction courses that are intended to enhance your learning. In some cases, the credits you earn for these certificates may be applied to an Associate in Applied Arts Degree, Associate in Applied Science Degree, or to study at a four-year college or university.

### Professional/Technical Certificate requirements include:

1. Earning a minimum of 45 credits with a minimum GPA of 2.0.
2. Completing a minimum of 12 credits, including the last quarter of residence, at Green River.
3. Earning no more than 25 percent of the credit requirements on a pass/no credit basis.

The curriculum for each professional/technical program is determined by the faculty of Green River College and in some cases an advisory committee from business and industry. Specific requirements are listed in "Programs of Study." Students should consult the program listings for specific classes required.

### CERTIFICATES OF PROFICIENCY (Cert -P)

Certificates of Proficiency are awarded in some professional/technical programs. The curriculum for each professional/technical program is determined by the faculty of Green River College, and in some cases an advisory committee from business and industry. Specific requirements of Proficiency coursework is 44 or less credits and generally do not include "related instruction" courses. See

"Programs of Study" for availability and specific requirements for Certificates of Proficiency, which usually do not include classes outside the major subject.

### Certificate of Proficiency requirements include:

1. Earn a minimum GPA of 2.0.
2. Complete a minimum of 25 percent of the credits required, including the last quarter of residence at Green River.
3. Earning no more than 25 percent of the credit requirements on a pass/no credit basis.

### RELATED INSTRUCTION REQUIREMENTS for the Associate in Applied Arts Degree (AAA) and Associate in Applied Science Degree (AAS)

The Associate in Applied Arts (AAA) and the Associate in Applied Science (AAS) degrees are designed for students in professional/technical programs. The faculty of Green River College and an advisory committee from local business and industry determine the curriculum for each professional/technical program. Each curriculum includes major field requirements, and related instruction requirements. To earn a degree, a student must accumulate a minimum of 90 credits, meet the specific requirements of the program, and earn a minimum GPA of 2.0. Twenty-four of the total 90 credits, including the last quarter of study, must be completed at Green River. No more than 25 percent of the credit requirements may be earned on a pass/no-credit basis. Students seeking AAA or AAS degrees must complete related instruction requirements in the program-related areas of communication, computation, and human relations. Where it is appropriate, safety and environmental awareness courses are also required for degree programs.

In most professional/technical fields at Green River, these related instructions are already included within the program. The requirements may be part of several courses or may be included in one particular course. Most students, in meeting the specific requirements of the programs, will automatically meet the related instruction requirements. (Courses designated as related instruction requirements will be denoted with a #symbol.) The related instruction requirements and their minimum levels of proficiency are listed below. The listed courses in communication, computation, and human relations may be credited toward no more than one related instruction requirement.

The Associate in Applied Arts (AAA) and the Associate in Applied Science (AAS) degrees are designed for students in professional/technical programs. The faculty of Green River College and an advisory committee from local business and industry determine the curriculum for each professional/technical program. Each curriculum includes major field requirements, and related instruction requirements. To earn a degree, a student must accumulate a minimum of 90 credits, meet the specific requirements of the program, and earn a minimum GPA of 2.0. Twenty-four of the total 90 credits, including the last quarter of study, must be completed at Green River. No more than 25 percent of the credit requirements may be earned on a pass/no-credit basis. Students seeking AAA or AAS degrees must complete related instruction requirements in the program-related areas of communication, computation, and human relations. Where it is appropriate, safety and environmental awareness courses are also required for degree programs.

In most professional/technical fields at Green River, these related instructions are already included within the program. The requirements may be part of several courses or may be included in one particular course. Most students, in meeting the specific requirements of the programs, will automatically meet the related instruction requirements. (Courses designated as related instruction requirements will be denoted with a #symbol.) The related instruction requirements and their minimum levels of proficiency are listed below. The listed courses in communication, computation, and human relations may be credited toward no more than one related instruction requirement.

### CERTIFICATES

Related instruction requirements are included in all certificates that are one year in length or longer (45 credits or more).

### Programs of Study

#### AAA and AAS Degrees and Certificates (over 45 credits)

##### 1.COMMUNICATION

**A. Writing:**

The student will earn a minimum of three credits\*from the following:

English &101, 109, 126, 127, or 128

*\*Although three credits are the minimum requirement, all of the above English courses are offered at five credits.*

**OR**

**Business Education 130** for the following business-related degrees and certificates:

**Degrees**

- Accounting
- Administrative Assistant
- Business Applications Specialist
- Business Management
- Captioning-Computer Reporting Technologies-Sequences A and B
- Court Reporting-Computer Reporting Technologies-Sequences A and B
- Legal Administrative Assistant
- Medical Office Administration

**Certificates**

- Administrative Assistant
- Business Applications Specialist
- Business Management, Business Foundations
- Business Management, Retail Management

**OR**

Advanced placement 3 (AP3)	Waiver from writing requirement; elective credit granted
Advanced placement 4 (AP4)	Waiver from writing requirement and 5 credits granted for college-level writing
Advanced placement 5 (AP5)	Waiver from writing requirement and 10 credits granted for college-level writing

**B. Oral:** The student will earn a minimum of three credits\*from the following:

†Communication Studies 100, &210, 217, &220, &230

*\*Although three credits are the minimum requirement, all of the above English courses are offered at five credits.*

**2. COMPUTATION**

Students pursuing degrees or certificates in programs without a specified computation or math course may satisfy this requirement by one of the following:

**A.** The student will earn a minimum of three credits\*from a mathematics course numbered 100 or higher (excluding co-op Math courses).

*\*Although three credits is the minimum requirement, most mathematics courses are offered at five credits.*

**B.** Achieve a COMPASS score sufficient for eligibility for **Math& 142** or above.

**OR**

Advanced placement 5 (AP5)	Waiver from computation requirement on the AB Examination and 10 credits granted for <b>Math&amp;151</b> and <b>Math&amp;152</b>
Advanced placement 3 (AP3)	Waiver from computation requirement on the BC Examination and 5 credits granted for <b>Math&amp;151</b>
Advanced placement 4 or 5 (AP4 or AP5)	Waiver from computation requirement on the BC Examination and 10 credits granted for <b>Math&amp;151</b> and <b>Math&amp;152</b>

**C. Business Technologies and Administrative Careers 110 or Business Administration 145** for the following business-related degrees and certificates:

**Degrees**

- Accounting
- Administrative Assistant
- Business Applications Specialist
- Business Management
- Captioning-Computer Reporting Technologies-Sequences A and B
- Court Reporting-Computer Reporting Technologies-Sequences A and B
- Legal Administrative Assistant
- Medical Office Administration

**Certificates**

- Administrative Assistant
- Business Applications Specialist
- Business Management, Business Foundations
- Business Management, Retail Management

**D. Computation - Acomp 100T** for Trades degrees and certificates over 45 credits.

**3. HUMAN RELATIONS**

The student will participate in a minimum of three credits\*or 33 hours of course work in which personal quality foundation skills and interpersonal workplace competencies are taught and practiced. These qualities and competencies are identified in the U.S. Department of Labor Secretary's Commission on Achieving Necessary Skills (SCANS). SCANS skills include, but are not limited to the following: demonstrate responsibility, self-worth, and sociability in groups, self-management and integrity/honesty; participate as a team member; help others; exhibit leadership; negotiates agreement; and develop an appreciation of socio-cultural differences while respecting the rights of others. The student's Human Relations requirement is met if at least 80% of the SCANS attributes (as mentioned above) are embedded into a course or courses that are part of their professional or technical program (see program requirements). If not embedded, the student will earn a minimum of three credits\*from the following courses:

**Business Management 166**

**\*Communication Studies 100, &210, 217, &220, &230, 238**

*\*Although three credits is the minimum requirement, most mathematics courses are offered at five credits.*

†**Cmst 100, &210, &220 and &230** can only be used here if not already used in the section 1B-Oral Communication)

**Accounting**  
**Associate in Applied Arts Degree**  
**90 Credits**

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

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

Dept./No.	Course Title	Credits
<b>Core Requirements</b>		
*Acct 110	Practical Financial Accounting 1	5
*Acct 111	Practical Financial Accounting 2	5
Acct 112	QuickBooks for Accounting	5
**Acct 113	Practical Accounting	5
Acct 118	Individual Taxation	5
Acct 121	Payroll Accounting	5
Btac 100	Fundamentals of Computers	5
†Btac 101	Beginning Keyboarding	0-5

## 54 Programs of Study

Btac 110	Business Math Applications	5
Btac 162	Introduction to Excel	5
Btac 163	Advanced Excel	5
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
Bus& 201 or Pols& 200	Business Law and the Regulations of Business or Introduction to Law	5

### Related Instruction Requirements

#B A 145	Business Computation	5
#Btac 130 or Engl 109 or Engl& 101 or Engl 126 or Engl 127 or Engl 128	Business Correspondence or Writing for Trades and Prof/Tech Degrees or English Composition or Writing: Humanities or Writing: Social Sciences or Research Writing: Science/Engineering/Business	5
#Bus 166 or Cmst 100 or Cmst& 210 or Cmst& 220	Human Relations and Work Readiness or Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5
#Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst& 230	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication	5
Reading	Eligible for Read 104, Reading Mastery	0-5

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

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

#Satisfies related instruction requirements.

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

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

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

Notes: Elective credits may be used to meet the minimum degree credit requirements. Students can only apply Cmst 100, &210, or Cmst& 220 towards the human relations area if NOT already used in the Communications area of the related instruction requirements.

### Accounting Certificate of Proficiency 40 Credits

For the student who desires early employment, or wishes to add specialty credentials to an already earned degree. Green River offers a course of instruction culminating in an Accounting certificate. (Tech Prep students may articulate into this program as a continuation of training started in high school qualified programs.) Students in this program must complete all required Accounting classes with a grade of 2.0 or higher. Students must earn a cumulative GPA of 2.0 or higher.

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

Dept./No.	Course Title	Credits
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#### Core Requirements

*Acct 110	Practical Financial Accounting 1	5
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*Acct 111	Practical Financial Accounting 2	5
Acct 112	QuickBooks for Accounting	5
Acct 121	Payroll Accounting	5
Btac 100	Fundamentals of Computers	5
Btac 110	Business Math Applications	5
Btac 162	Introduction to Excel	5
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5

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

#### Keyboarding requirement:

Keyboarding may be demonstrated by passing a 5-minute typing test at 35 wpm with 5 or less errors using the proper touch typing techniques. Students unable to meet the minimum typing speed required may take Btac 101 to fulfill the keyboarding requirement.

### Accounting Clerk Certificate of Proficiency 15 Credits

Students will learn the basic of accounting, business math, and computer technologies to start their way toward a job as an accounting clerk. Students must complete all required Accounting classes with a grade of 2.0 or higher. Students must earn a cumulative G.P.A. of 2.0 or higher.

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

Dept./No.	Course Title	Credits
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#### Core Requirements

*Acct 110	Practical Financial Accounting 1	5
Btac 100	Fundamentals of Computers	5
Btac 110	Business Math Applications	5

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

### 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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lsimpson@greenriver.edu slettvet@greenriver.edu

Tonya McCabe, ext. 4783 Shannon Sharpe, ext. 4378  
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Dept./No.	Course Title	Credits
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Lifetime Fitness/ Wellness/ Activity	Any course listed under the AA degree Lifetime Fitness/Wellness/Activity area	1+
Btac 100	Fundamentals of Computers	5
*Btac 101	Beginning Keyboarding	5
*Btac 102	Intermediate Keyboarding	5
Btac 103	Advanced Keyboarding	5
#Btac 110	Business Math Applications	5
Btac 112 or 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 <b>or</b>	Introduction to Excel <b>or</b>	
Btac 163	Advanced Excel	5
Btac 163 <b>or</b>	Advanced Excel <b>or</b>	
Btac 185 <b>or</b>	Introduction to Microsoft Access <b>or</b>	
Btac 255	Advanced Word	5
Btac 177	BTAC Work Experience 1	3
Btac 214	Introduction to Information Security	5
#Btac 250	Office Relations and Procedures	5
Btac 266	Inside Microsoft Office	5
#Cmst 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
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 courses to total 90 credits:*

Acct 110 <b>or</b>	Practical Financial Accounting 1 <b>or</b>	
Acct& 201 <b>or</b>	Principles of Accounting I <b>or</b>	
Btac 090	Office Accounting	5
Acct 112	QuickBooks for Accounting	5
*Btac 107 <b>and/or</b>	Typing Speed and Accuracy 1 <b>and/or</b>	
Btac 108	Typing Speed and Accuracy 2	4-8
°Btac 111	Introduction to Computer Literacy	5
°Btac 115	Professional Image Building	1
Btac 163	Advanced Excel	5
Btac 170.1 <b>or</b>	Beginning Keyboarding-Alphabet Keys <b>or</b>	
Btac 170.2 <b>or</b>	Keyboarding-Mastering 10-Key and Symbols <b>or</b>	
Btac 170.3	Keyboarding-Speed and Accuracy-Skill Building	1
Btac 171.1 <b>or</b>	PowerPoint: Preparing a Presentation <b>or</b>	
Btac 171.2 <b>or</b>	PowerPoint: Designs with Graphics and Multimedia <b>or</b>	
Btac 171.3	PowerPoint: Customize and Incorporate Web Features	1
Btac 173.1 <b>or</b>	Word: Create, Edit and Format Documents <b>or</b>	
Btac 173.2 <b>or</b>	Word: Tables and Sharing Documents <b>or</b>	
Btac 173.3 <b>or</b>	Word: Mail Merge and Other Productivity Tools <b>or</b>	
Btac 173.4 <b>or</b>	Word: Create a Newsletter <b>or</b>	
Btac 173.5	Word: Creating Forms, Macros and Document Security	1
Btac 174.1 <b>or</b>	Excel: Introduction to Formulas and Functions <b>or</b>	
Btac 174.2 <b>or</b>	Excel: Charts and Working with Large Worksheets <b>or</b>	
Btac 174.3 <b>or</b>	Excel as a Database <b>or</b>	
Btac 174.4 <b>or</b>	Excel: Data Consolidation and What-If Analysis <b>or</b>	
Btac 174.5	Excel: Collaboration, the Web and Macros	1
Btac 175	Instructor Assistant	1-5
Btac 176.1 <b>or</b>	Access: Create and Modify a Database <b>or</b>	
Btac 176.2 <b>or</b>	Access: Use Queries to Produce Information <b>or</b>	
Btac 176.3 <b>or</b>	Access: Create and Modify Forms <b>or</b>	
Btac 176.4	Access: Create and Modify Reports	1
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 216	Computer Support Internship 1	5
Btac 255	Advanced Word	5
Bus& 101 <b>or</b>	Introduction to Business <b>or</b>	
Bus 164	Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	5
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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<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
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 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
Reading	Eligible for Read 104 (as determined by the appropriate assessment test score) or completion of Read 094	0-5

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

Acct 110 <b>or</b>	Practical Financial Accounting 1 <b>or</b>	
Acct& 201 <b>or</b>	Principles of Accounting I <b>or</b>	
Btac 090	Office Accounting	5
Acct 112	QuickBooks for Accounting	5
Bus& 101 <b>or</b>	Introduction to Business <b>or</b>	
Bus 164	Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	5
*Btac 101	Beginning Keyboarding	5
Btac 103	Advanced Keyboarding	5
Btac 107 <b>and/or</b>	Typing Speed and Accuracy 1 <b>and/ or</b>	
Btac 108	Typing Speed and Accuracy 2	4-8
°Btac 111	Introduction to Computer Literacy	5
°Btac 115	Professional Image Building	1
Btac 163	Advanced Excel	5
Btac 170.1 <b>or</b>	Beginning Keyboarding-Alphabet Keys <b>or</b>	
Btac 170.2 <b>or</b>	Keyboarding-Mastering 10-Key and Symbols <b>or</b>	
Btac 170.3	Keyboarding-Speed and Accuracy-Skill Building	1
Btac 171.1 <b>or</b>	PowerPoint: Preparing a Presentation <b>or</b>	
Btac 171.2 <b>or</b>	PowerPoint: Design with Graphics and Multimedia <b>or</b>	
Btac 171.3	PowerPoint: Customize and Incorporate Web Features	1
Btac 173.1 <b>or</b>	Word: Create, Edit and Format Documents <b>or</b>	
Btac 173.2 <b>or</b>	Word: Tables and Sharing Documents <b>or</b>	
Btac 173.3 <b>or</b>	Word: Mail Merge and Other Productivity Tools <b>or</b>	
Btac 173.4 <b>or</b>	Word: Create a Newsletter <b>or</b>	
Btac 173.5	Word: Creating Forms, Macros and Document Security	1
Btac 174.1 <b>or</b>	Excel: Introduction to Formulas and Functions <b>or</b>	

## 56 Programs of Study

Btac 174.2 or Btac 174.3 or Btac 174.4 or Btac 174.5	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 176.1 or Btac 176.2 or Btac 176.3 or Btac 176.4	Access: Create and Modify a Database or Access: Use Queries to Produce Information or Access: Create and Modify Forms or Access: Create and Modify Reports	1
† Btac 177-179 and Coop 171	BTAC Work Experience 1-3 and Work Experience Seminar	2-10 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 Btac 102	Beginning Keyboarding or 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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Tonya McCabe, ext. 4783 Shannon Sharpe, ext. 4378  
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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 Communication Applications	5
Btac 140 or Btac 150	Records Management or Introduction to Windows	5
Btac 162	Introduction to Excel	5

### Aerospace and Advanced Manufacturing- Machine Maintenance 1 Certificate of Proficiency 13 Credits

**Contact:** Pat Pritchard, ext. 4261  
ppritchard@greenriver.edu

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

### Aerospace and Advanced Manufacturing- Machine Maintenance 2 Certificate of Proficiency 13 Credits

**Contact:** Pat Pritchard, ext. 4261  
ppritchard@greenriver.edu

Dept./No.	Course Title	Credits
AAM 104	Machine Maintenance 2	13



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

**Contact:** Tom Tagliente, ext. 4261  
ttagliente@greenriver.edu

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

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

**Contact:** Tom Tagliente, ext. 4261  
ttagliente@greenriver.edu

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

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

**Contact:** Terry Waagan, ext. 4342  
twaagan@greenriver.edu

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

**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.

**Contact:** Dan Sorensen, ext. 4202      Karl Hoffman, ext. 4253  
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Dept./No.	Course Title	Credits
<b>First Quarter</b>		
	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
<b>Second Quarter</b>		
#Acomp 100T 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
<b>Third Quarter</b>		
Atech 112	Engine Performance	9
Atech 113	Engine Repair	3
Atech 152	Automotive Leadership Skills 3	1
Indus 102.1	Welding Survey 1	3
<b>Fourth Quarter</b>		
Atech 112	Engine Performance	5
Atech 115	Manual Drive Trains and Axles	6
Atech 153	Automotive Leadership Skills 4	1
#Engl 109	Writing for Trades and Prof/Tech Degrees	5
<b>Fifth Quarter</b>		
Atech 114 and/or Atech 108.1	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
<b>Sixth Quarter</b>		
Atech 119 or Atech 177	Special Shop Practice or 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.*

## 58 Programs of Study

### Automotive Brakes, Steering and Suspension Certificate of Proficiency 16 Credits

Recipients of the certificate achieve competencies set forth by the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE).

The major objective of this certificate program is to provide students opportunity to develop essential skills necessary for an entry-level position in the field of Automotive Brakes, Steering and Suspension repair.

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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Paul Mueller, ext. 2635  
pmueller@greenriver.edu

Dept./No.	Course Title	Credits
<b>First Quarter</b>		
Reading requirement	Eligible for Read 104	
Atech 110	Shop Procedures	2
Atech 116	Suspension and Steering	6
Atech 117	Brakes	7
Atech 150 or	Automotive Leadership Skills 1 or	
Atech 151 or	Automotive Leadership Skills 2 or	
Atech 152 or	Automotive Leadership Skills 3 or	
Atech 153 or	Automotive Leadership Skills 4 or	
Atech 154	Automotive Leadership Skills 5	1

### Automotive Electrical Systems Certificate of Proficiency 15 Credits

Recipients of the certificate achieve competencies set forth by the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE).

The major objective of this certificate program is to provide students opportunity to develop essential skills necessary for an entry-level position in the field of Automotive Electrical Systems repair.

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
Reading requirement	Eligible for Read 104	
Atech 111	Electrical and Electronic Systems	14
Atech 150 or	Automotive Leadership Skills 1 or	
Atech 151 or	Automotive Leadership Skills 2 or	
Atech 152 or	Automotive Leadership Skills 3 or	
Atech 153 or	Automotive Leadership Skills 4 or	
Atech 154	Automotive Leadership Skills 5	1

### Automotive Engine Performance Certificate of Proficiency 15 Credits

Recipients of the certificate achieve competencies set forth by the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE).

The major objective of this certificate program is to provide students opportunity to develop essential skills necessary for an entry-level position in the field of Automotive Engine Performance and Drivability repair.

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
Reading requirement	Eligible for Read 104	
Atech 112	Engine Performance	14
Atech 150 or	Automotive Leadership Skills 1 or	
Atech 151 or	Automotive Leadership Skills 2 or	
Atech 152 or	Automotive Leadership Skills 3 or	
Atech 153 or	Automotive Leadership Skills 4 or	
Atech 154	Automotive Leadership Skills 5	1

### Automotive Heating and Air Conditioning Certificate of Proficiency 7 Credits

Recipients of the certificate achieve competencies set forth by the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE).

The major objective of this certificate program is to provide students opportunity to develop essential skills necessary for an entry-level position in the field of Automotive Heating/Air Conditioning repair.

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
Reading requirement	Eligible for Read 104	
Atech 118	Heating and Air Conditioning	6
Atech 150 or	Automotive Leadership Skills 1 or	
Atech 151 or	Automotive Leadership Skills 2 or	
Atech 152 or	Automotive Leadership Skills 3 or	
Atech 153 or	Automotive Leadership Skills 4 or	
Atech 154	Automotive Leadership Skills 5	1

**Automotive Transmission and Transaxle  
Certificate of Proficiency  
15 Credits**

Recipients of the certificate achieve competencies set forth by the National Automotive Technicians Education Foundation (NATEF) and the National Institute for Automotive Service Excellence (ASE).

The major objective of this certificate program is to provide students opportunity to develop essential skills necessary for an entry-level position in the field of Automotive Transmission and Transaxle repair.

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
<b>Reading requirementEligible for Read 104</b>		
Atech 114	Automatic Transmission and Transaxle	8
Atech 115	Manual Drive Trains and Axles	6
Atech 150 <b>or</b>	Automotive Leadership Skills 1 <b>or</b>	
Atech 151 <b>or</b>	Automotive Leadership Skills 2 <b>or</b>	
Atech 152 <b>or</b>	Automotive Leadership Skills 3 <b>or</b>	
Atech 153 <b>or</b>	Automotive Leadership Skills 4 <b>or</b>	
Atech 154	Automotive Leadership Skills 5	1

**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 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
<b>General Education Requirements (60 credits)</b>		
<b>Communication Skills</b>		
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
Engl 335 <b>and</b>	Advanced Technical Writing <b>and</b>	
Engl& 101 <b>or</b>	English Composition <b>or</b>	
Engl 126 <b>or</b>	Writing: Humanities <b>or</b>	
Engl 127 <b>or</b>	Writing: Social Science	
Engl 128	Research Writing: Science/Engineering /Business	10
<b>Quantitative/Symbolic Reasoning Skills</b>		
Math 106 <b>or</b>	Essentials of Precalculus Math <b>or</b>	
Math& 107 <b>or</b>	Math in Society <b>or</b>	
	Math 108 <b>or</b>	
	Contemporary Math for Information Technology <b>or</b>	
Math& 141 <b>or</b> higher	Precalculus I <b>or</b> higher	5

## 60 Programs of Study

### Humanities

Cmst 338 <b>or</b>	Diversity in the Workplace <b>or</b> Five credits from the list of humanities, fine arts <b>or</b> English courses from the AA-DTA degree	5
Phil 412	Professional Ethics	5

### Natural Sciences

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

### Social Sciences

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

Five credits from the list of courses from the humanities, fine arts or English, social science and natural science		5
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### Core Requirements – Flight Operations (53 credits)

^Avia 300	Certified Flight Instructor Ground School	3
^Avia 316	Advanced Instrument Ground School	5
^Avia 320	Multi-Engine, Turbine and Advanced Cockpit Technologies Ground School	3
^Avia 330	Certified Flight Instructor-Multi-Engine Turbine and Advanced Cockpit Technologies Ground School	3
Avia 360	General Aviation Operations Management	5
^Avia 370	Aviation Safety Management System	5
Avia 375	ICAO Operations Standards	5
Avia 400	Airlines Operations Management	5
Avia 410	Aviation and Aircrew Resource Management	5
Avia 490	Capstone: Aviation Research Projects	3
*^Flt 311	Certified Flight Instructor-Instructor Flight 12	
*^Flt 312	Certified Flight Instructor-Instructor Flight 2	1
*^Flt 321	Multi-Engine Operations Flight	1
*^Flt 324	Turbine Operations Flight	1
*^Flt 326	Advanced Cockpit Technologies Flight	1
*^Flt 331	Certified Flight Instructor-Multi-Engine Flight	2
*^Flt 334	Certified Flight Instructor-Turbine Flight	1
*^Flt 336	Certified Flight Instructor-Commercial Pilot, Advanced Cockpit Technologies Flight	1
*^Flt 338	Certified Flight Instructor-Instrument Flight Procedures	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 Business Management and Marketing	5
Avia 385	Airport Planning and Operations Management	5
Avia 400	Airlines Operations Management	5
Avia 410	Aviation and Aircrew Resource Management	5
Avia 430	Aviation Economics and the Global Economy	5
Avia 490	Capstone: Aviation Research Projects	3

### Additional Credits

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

## 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	Aviation Safety and Human Factors	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 <b>or</b>	Air Traffic Control Fundamentals <b>or</b>	
Avia 281 <b>or</b>	Air Traffic Control 1 <b>or</b>	
Avia 282	Air Traffic Control 2	5
#Cmst&210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
#Engl& 101 <b>or</b>	English Composition I <b>or</b>	
Engl 126 <b>or</b>	Writing: Humanities <b>or</b>	
Engl 127 <b>or</b>	Writing: Social Science <b>or</b>	
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:**

#### Aviation Electives

Avia 101	Aviation Fundamentals	5
Avia 177 <b>or</b>	Aviation Work Experience 1 <b>or</b>	
Avia 178 <b>or</b>	Aviation Work Experience 2 <b>or</b>	
Avia 179	Aviation Work Experience 3	1-10
Avia 190	FAA Next Generation Technologies	5
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

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

#Satisfies related instruction requirements

**Aircraft Dispatcher**  
**Certificate of Proficiency**  
**37 Credits**

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

**Entrance Requirements:**

1. Math scores of 86-100 on the numerical skill portion of the COMPASS or qualifies for Math 072.
2. College-level reading competency as measured by COMPASS reading assessment or eligible for Read 104.
3. Recommended keyboarding/typing skill of 30 wpm. Keyboarding skills may be demonstrated by passing a 3-minute typing test at 30 wpm with 5 or less errors using the proper touch typing technique administered by the Business Technologies and Administrative Careers department.

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Dept./No.	Course Title	Credits
<b>First Quarter</b>		
Avia 111	Private Pilot Ground School	5
Avia 112	Aircraft Systems	5
Avia 123	Aviation Weather	5
<b>Second Quarter</b>		
Avia 216	Basic Instrument Pilot Ground School	5
Avia 270 <b>or</b>	Air Traffic Control Fundamentals <b>or</b>	
Avia 281	Air Traffic Control 1	5
Avia 221	FAA Written Test Preparation for ATP/Dispatch	2
<b>Third Quarter</b>		
Avia 265	Airline Dispatch	10

**Airline Dispatcher Completion**  
**Certificate of Proficiency**  
**30 Credits**

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

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

**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 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 190	FAA Next Generation Technologies	5
Avia 211	Aerodynamics for Pilots	5
Avia 212	Aviation Safety and Human Factors	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 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
#Engl& 101 <b>or</b>	English Composition I <b>or</b>	
Engl 126 <b>or</b>	Writing: Humanities <b>or</b>	
Engl 127 <b>or</b>	Writing: Social Science <b>or</b>	
Engl 128	Research Writing: Science/Engineering/Business	5
#Math 106 <b>or</b>	Essentials of PreCalculus Mathematics <b>or</b>	
Math& 107 <b>or</b>	Math in Society <b>or</b>	
Math& 108 <b>or</b>	Contemporary Math for Information Technology <b>or</b>	
Math& 141 <b>or</b> 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:**

<u>Aviation Electives</u>		
Avia 101	Aviation Fundamentals	5
Avia 177 <b>or</b>	Aviation Work Experience 1 <b>or</b>	
Avia 178 <b>or</b>	Aviation Work Experience 2 <b>or</b>	
Avia 179	Aviation Work Experience 3	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 GIS class 100 level or higher	5
	Any Science class 100 level or higher	5
	Any Business class 100 level or higher	5
	Any Humanities class 100 level or higher	5
	Coop 171, Work Experience Seminar	1

#Satisfies related instruction requirements.

## 62 Programs of Study

### Air Transportation Associate in Applied Science Degree 115 Credits

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

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

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

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

#### Aviation Electives

Avia 101	Aviation Fundamentals	5
Avia 128	Aviation Weather Observation	3
Avia 177 or Avia 178 or Avia 179	Aviation Work Experience 1 or Aviation Work Experience 2 or Aviation Work Experience 3	1-10
Avia 211	Aerodynamics for Pilots	5
Avia 212	Aviation Safety and Human Factors	5
Avia 217	Aviation Security	5

#### Non-Aviation Electives

Any computer class 100 level or higher	1-5
Any GIS class 100 level or higher	1-5
Any Science class 100 level or higher	1-5
Any Business class 100 level or higher	1-5

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

*#Satisfies related instruction requirements.*

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

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

#### Aviation Electives

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

#### Non-Aviation Electives

Any computer class 100 level or higher	1-5
Any GIS class 100 level or higher	1-5

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

#Satisfies related instruction requirements.

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

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

**Commercial Pilot**  
**Associate in Applied Science Degree**

**Fixed Wing Pilot Option**  
**108-110 Credits**

**Helicopter Pilot Option**  
**114-116 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 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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 gcomollo@greenriver.edu    jwolfe@greenriver.edu

Chris Ward, ext. 4337  
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Dept./No.	Course Title	Credits
Avia 103	Aviation History and Careers	5
Avia 206 or Avia 110	Helicopter Ground School or Airline Operations	3-5
Avia 111	Private Pilot Ground School	5
Avia 112	Aircraft Systems	5
Avia 123	Aviation Weather	5
Avia 210	Aviation and the Law	5
Avia 211	Aerodynamics for Pilots	5
Avia 212	Aviation Safety and Human Factors	5
Avia 216	Basic Instrument Pilot Ground School	5
Avia 218	Commercial Pilot Ground School	5
Avia 265	Airline Dispatch	10
# Avia 270 or Avia 281 or Avia 282	Air Traffic Control Fundamentals or Air Traffic Control 1 or Air Traffic Control 2	5
# Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communications or Public Speaking or Small Group Communication	5
# Engl& 101 or Engl 126 or Engl 127 or Engl 128	English Composition I or Writing: Humanities or Writing: Social Science or Research Writing: Science/Engineering /Business	5
# Math 106 or Math& 107 or Math 108 or Math& 141 or higher	Essentials of Precalculus I or Math in Society or Contemporary Math for Information Technology or Precalculus I or higher	5
Natural Science	Any 100-level Science course or higher with a lab	5

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

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

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

Flt 161	Private Pilot Helicopter Flight 1	2
Flt 162	Private Pilot Helicopter Flight 2	2
Flt 163	Private Pilot Helicopter Flight 3	1
Flt 261	Instrument Pilot Helicopter Flight 1	2
Flt 262	Instrument Pilot Helicopter Flight 2	2
Flt 263	Instrument Pilot Helicopter Flight 3	1
Flt 271	Commercial Pilot Helicopter Flight 1	2
Flt 272	Commercial Pilot Helicopter Flight 2	2
Flt 273	Commercial Pilot Helicopter Flight 3	1

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Flt 281	Instructor Pilot Helicopter Flight 1	2
Flt 282	Instructor Pilot Helicopter Flight 2	1
Flt 291	Instrument Instructor Pilot Helicopter Flight 1	2
Flt 292	Instrument Instructor Pilot Helicopter Flight 2	1

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

### Aviation Electives:

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

### Non-Aviation Electives

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

# Satisfies related instruction requirements.

## Basic Aviation Knowledge

### Certificate of Proficiency

10 Credits

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

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

## Advanced Aviation Knowledge

### Certificate of Proficiency

15 Credits

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

**Contact:** George Comollo, ext. 4336      Jerry Wolfe, ext. 4339  
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Dept./No.	Course Title	Credits
<b>First Quarter</b>		
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5

### Second Quarter

Avia 218	Commercial Pilot Ground School	5
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## International Flight Planning

### Certificate of Proficiency

35 Credits

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

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Dept./No.	Course Title	Credits
<b>First Quarter:</b>		
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 216	Basic Instrument Pilot Ground School	5

### Second Quarter:

Avia 270 or	Air Traffic Control Fundamentals or	
Avia 281	Air Traffic Control 1	5
Avia 265	Airline Dispatch	10
Avia 267	International Flight Planning and ETOPS	5

## 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 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

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

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

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

#Satisfies related instruction requirements.

### Unmanned Aerial Systems (UAS) Basic Operator

#### Certificate of Proficiency

15 Credits

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

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

### Business Applications Specialist

#### Associate in Applied Arts Degree

90 Credits

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

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Dept./No.	Course Title	Credits
Lifetime Fitness/Wellness/Activity	Any courses under the AA degree	
Btac 100	Lifetime Fitness/Wellness/Activity Area	1+
*Btac 101	Fundamentals of Computers	5
#Btac 110	Beginning Keyboarding	5
Btac 112	Business Math Applications	5
#Btac 130	Beginning Word	5
Btac 132	Business Correspondence	5
Btac 140	Business Communication Applications	5
Btac 150	Records Management	5
Btac 162	Introduction to Windows	5
Btac 163	Introduction to Excel	5
Btac 164	Advanced Excel	5
Btac 184 or	Internet and Basic Web Design or	
IT 121	Introduction to HTML and Cascading Style Sheets	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	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

**Suggested Electives:** Students must select from the following list of courses to total 90 credits.

Acct 110 or	Practical Financial Accounting 1 or	
Acct& 201 or	Principles of Accounting I or	
Btac 090	Office Accounting	5
Acct 112	QuickBooks for Accounting	5
Bus& 101 or	Introduction to Business or	
Bus 164	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	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 132	Business Communication Applications	5
Btac 163	Advanced Excel	5
Btac 170.1 or	Beginning Keyboarding-Alphabet Keys or	
Btac 170.2 or	Keyboarding-Mastering 10-Key and Symbols or	
Btac 170.3	Keyboarding-Speed and Accuracy-Skill Building	1
Btac 171.1 or	PowerPoint: Preparing a Presentation or	
Btac 171.2 or	PowerPoint: Design with Graphics and	

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	Multimedia <b>or</b>	
Btac 171.3	PowerPoint: Customize and Incorporate Web Features	1
Btac 173.1 <b>or</b>	Word: Create, Edit and Format Documents <b>or</b>	
Btac 173.2 <b>or</b>	Word: Tables and Sharing Documents <b>or</b>	
Btac 173.3 <b>or</b>	Word: Mail Merge and Other Productivity Tools <b>or</b>	
Btac 173.4 <b>or</b>	Word: Create a Newsletter <b>or</b>	
Btac 173.5	Word: Creating Forms, Macros and Document Security	1
Btac 174.1 <b>or</b>	Excel: Introduction to Formulas and Functions <b>or</b>	
Btac 174.2 <b>or</b>	Excel: Charts and Working with Large Worksheets <b>or</b>	
Btac 174.3 <b>or</b>	Excel as a Database <b>or</b>	
Btac 174.4 <b>or</b>	Excel: Data Consolidation and What-If Analysis <b>or</b>	
Btac 174.5	Excel: Collaboration, the Web and Macros	1
Btac 175	Instructor Assistant	1-5
Btac 176.1 <b>or</b>	Access: Create and Modify a Database <b>or</b>	
Btac 176.2 <b>or</b>	Access: Use Queries to Produce Information <b>or</b>	
Btac 176.3 <b>or</b>	Access: Create and Modify Forms <b>or</b>	
Btac 176.4	Access: Create and Modify Reports	1
†Btac 177-179 <b>and</b>	BTAC Work Experience 1-3 <b>and</b>	2-10
Coop 171	Work Experience Seminar	1
Btac 217	Computer Support Internship 2	2-5
Btac 218	Basic Office PC Support	5
Btac 219	Basic Networking Concepts	5
Btac 255	Advanced Word	5
Psyc& 100	General Psychology	5
Soc& 101	Introduction to Sociology	5

#Satisfies related instruction requirements.

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

°Qualifies as AA activity credit.

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

### Business Applications Specialist Certificate 75-80 Credits

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

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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 <b>or</b>	Internet and Basic Web Design <b>or</b>	
IT 121	Introduction to HTML and Cascading Style Sheets	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 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test score) or completion of Read 094	0-5

**Suggested Electives:** Students may select from the following list of courses to total 75-80 credits.

Acct 110 <b>or</b>	Practical Financial Accounting 1 <b>or</b>	
Acct& 201 <b>or</b>	Principles of Accounting I <b>or</b>	
Btac 090	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 <b>and/or</b>	Typing Speed and Accuracy 1 <b>and/or</b>	
Btac 108	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 170.1 <b>or</b>	Beginning Keyboarding-Alphabet Keys <b>or</b>	
Btac 170.2 <b>or</b>	Keyboarding-Mastering 10-Key and Symbols <b>or</b>	
Btac 170.3	Keyboarding-Speed and Accuracy-Skill Building	1
Btac 171.1 <b>or</b>	PowerPoint: Preparing a Presentation <b>or</b>	
Btac 171.2 <b>or</b>	PowerPoint: Design with Graphics and Multimedia <b>or</b>	
Btac 171.3	PowerPoint: Customize and Incorporate Web Features	1
Btac 173.1 <b>or</b>	Word: Create, Edit and Format Documents <b>or</b>	
Btac 173.2 <b>or</b>	Word: Tables and Sharing Documents <b>or</b>	
Btac 173.3 <b>or</b>	Word: Mail Merge and Other Productivity Tools <b>or</b>	
Btac 173.4 <b>or</b>	Word: Create a Newsletter <b>or</b>	
Btac 173.5	Word: Creating Forms, Macros and Document Security	1
Btac 174.1 <b>or</b>	Excel: Introduction to Formulas and Functions <b>or</b>	
Btac 174.2 <b>or</b>	Excel: Charts and Working with Large Worksheets <b>or</b>	
Btac 174.3 <b>or</b>	Excel as a Database <b>or</b>	
Btac 174.4 <b>or</b>	Excel: Data Consolidation and What-If Analysis <b>or</b>	
Btac 174	Excel: Collaboration, the Web and Macros	1
Btac 175	Instructor Assistant	1-5
Btac 176.1 <b>or</b>	Access: Create and Modify a Database <b>or</b>	
Btac 176.2 <b>or</b>	Access: Use Queries to Produce Information <b>or</b>	
Btac 176.3 <b>or</b>	Access: Create and Modify Forms <b>or</b>	
Btac 176.4	Access: Create and Modify Reports	1
Btac 177-179 <b>and</b>	BTAC Work Experience 1-3 <b>and</b>	2-10
Coop 171	Work Experience Seminar	1
Btac 214	Introduction to Information in Security	5
Btac 216	Computer Support Internship 1	2-5
Btac 217	Computer Support Internship 2	2-5
Btac 218	Basic Office PC Support	5
Btac 219	Basic Networking Concepts	5
Btac 255	Advanced Word	5
Bus& 101 <b>or</b>	Introduction to Business <b>or</b>	
Bus 164	Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	5

#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.

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Dept./No.	Course Title	Credits
<b>Required Classes</b>		
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	Introduction to Excel or	
Btac 163	Advanced Excel	5
Btac 214	Introduction to Information Security	5
Btac 266	Inside Microsoft Office	5

**Electives:** Select one course from the following 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 or	Internet and Basic Web Design or	
IT 121	Introduction to HTML and Cascading Style Sheets	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 or	Internet and Basic Web Design or	
IT 121	Introduction to HTML and Cascading Style Sheets	5

**Business Management**  
 Associate in Applied Arts Degree  
 90-95 Credits

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

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

**Contact:** Jeff Perlot, ext. 4865  
 jperlot@greenriver.edu

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

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

Acct	Any Accounting course	(1-5)
Bus	Any Business Management course	(1-5)
Btac	Any Business Technologies and Administrative Careers course	(1-5)
Bus 177	Supervised Work Experience 1	(2)
Cmst	Any Communication Studies course	(5)
Econ	Any Economics course	(5)
Engl	Any English course	(5)
Pols& 200	Introduction to Law	(5)

#Satisfies related instruction requirements.

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

**Business Management  
Business Foundations  
Certificate  
45 Credits**

**Contact:** Jeff Perlot, ext. 4685  
jperlot@greenriver.edu

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Acct 110 <b>or</b> Acct& 201	Practical Financial Accounting 1 <b>or</b> Principles of Accounting I	5
#B A 145 <b>or</b> Math& 107 <b>or</b> Math 147	Business Computation <b>or</b> Math in Society <b>or</b> Finite Mathematics-Business and Social Science	5
Btac 100	Fundamentals of Computers	5
#Btac 130 <b>or</b> Engl& 101	Business Correspondence <b>or</b> English Composition	5
Btac 162	Introduction to Excel	5
Bus& 101 <b>or</b> Bus 164	Introduction to Business <b>or</b> Entrepreneurship and Small Business Management	5
#Bus 166	Human Relations and Work Readiness	5
Bus 173	Basic Financial Management	5
#Cmst& 210 <b>or</b> Cmst& 220	Interpersonal Communication <b>or</b> Public Speaking	5

*#Satisfies related instruction requirements.*

**Business Management  
Management and Supervision  
Certificate  
25 Credits**

This certificate program is for anyone interested in being a more effective manager. This certificate can be completed in as little as two quarters and provides immediate applicable skills for a business professional or entrepreneur. All courses apply towards the Business Management Associate in Applied Arts degree.

**Contact:** Jeff Perlot, ext. 4685  
jperlot@greenriver.edu

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Bus 103	Business Leadership	5
Bus 166	Human Relations and Work Readiness	5
Bus 181	Introduction to International Business	5
Bus 202	Introduction to Project Management	5
Bus 258	Principles of Management and Supervision	5

**Business Management  
Marketing and Sales  
Certificate of Proficiency  
20 Credits**

This certificate program teaches the fundamental skills required for success in marketing and sales. This certificate can be completed as little as one to two quarters and provides immediately applicable skills for a business professional or entrepreneur. All courses apply towards the Business Management Associate in Applied Arts degree.

**Contact:** Jeff Perlot, ext. 4685  
jperlot@greenriver.edu

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Bus 121	Marketing Fundamentals	5
Bus 159	Professional Selling	5
Bus 202	Introduction to Project Management	5
Bus 257	Customer Service Strategies	5

**Business Management  
Retail Management  
Certificate  
50 Credits**

This certificate program prepares individuals to manage a variety of retail sales operations or lines of merchandise. The program serves both entry-level job candidates and current employees. After successful completion of the required coursework, students receive a certificate, which may also show the WAFC (Washington Association of Food Chains) endorsement.

**Contact:** Jeff Perlot, ext. 4685  
jperlot@greenriver.edu

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Acct 110 <b>or</b> Acct& 201	Practical Financial Accounting 1 <b>or</b> Principles of Accounting I	5
#B A 145 <b>or</b> Math& 107 <b>or</b> Math 147	Business Computation <b>or</b> Math in Society <b>or</b> Finite Mathematics-Business and Social Science	5
Btac 100	Fundamentals of Computers	5
#Btac 130 <b>or</b> Engl& 101 <b>or</b> Engl 127	Business Correspondence <b>or</b> English Composition <b>or</b> Writing: Social Sciences	5
Bus 103	Business Leadership	5
Bus 121	Marketing Fundamentals	5
#Bus 166	Human Relations and Work Readiness	5
Bus 257	Customer Service Strategies	5
Bus 258	Principles of Management and Supervision	5
#Cmst& 210 <b>or</b> Cmst& 220	Interpersonal Communication <b>or</b> Public Speaking	5

*#Satisfies related instruction requirement.*

**Carpentry Technology  
Residential and Light Commercial  
Associate in Applied Science Degree  
91-106 Credits**

This degree program prepares individuals to become successfully employed in the field of residential construction. Students can also apply these skills to a variety of jobs within the field of construction. 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 should 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.

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

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
<b>Carp 113</b>	<b>Residential Foundations and Floor Framing</b>	<b>13</b>
<b>Carp 114</b>	<b>Residential Wall and Roof Framing</b>	<b>13</b>
<b>Carp 115</b>	<b>Residential Exterior and Interior Finish</b>	<b>13</b>
Carp 161	Residential Print Reading	3
Carp 162	Stair Design and Construction	4
Carp 163	Rafters Design and Framing Level 1	4
Carp 164	Basic Cabinet Construction	4
Carp 165	Residential Remodeling Practices	4
Carp 166	Deck Construction and Concrete Flatwork	4
Carp 167	Residential Material Estimating	3
Carp 168	Green Construction Principles and Practices	3

**Required Electives:** Student must earn a minimum of 8 to a maximum of 18 credits from the following classes:

Carp 169	Advanced Stair design/Construction	4
Carp 170	Advanced Roof Framing	4
Carp 171	Advanced Cabinetry and Wood Fabrication	1-6
Carp 172	Advanced Finish Carpentry	4

**Related Instruction Requirements:**

#Human Relations	5 credits of Human Relations listed in the Related Instruction Requirements	5
#Oral Communication	5 credits of Oral Communications listed in the Related Instruction Requirements	5
#Computation	Acomp 100T, Computation for the Trades or Completion of Math 062 or Eligible for Math 070	0-5
#Written Communication	5 credits of Written Communications listed in the Related Instruction Requirements	5

**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.

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

**Carpentry Technology  
Residential 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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<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Carp 113	Residential Foundations and Floor Framing	13
Carp 166	Deck Construction and Concrete Flatwork	4

**Carpentry Technology  
Residential 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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<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Carp 115	Residential Exterior and Interior Finish	6
Carp 166	Deck Construction and Concrete Flatwork	4

**Carpentry Technology  
Residential Light and Commercial 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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<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
*Carp 114	Residential Wall and Roof Framing	13

*\*Must complete sections I and II in student manual.*

**Carpentry Technology  
Residential Light and Commercial 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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<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Carp 114	Residential Wall and Roof 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  
Residential and Light Commercial Framing Level 3  
Certificate of Proficiency  
29 Credits**

This certificate provides students with additional skills and knowledge required for advancement with specialty contractors/builders. Students will be proficient in the design, layout and installation of complex stairs and stick framed roof systems.

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Dept./No.	Course Title	Credits
Carp 114	Residential Wall and Roof Framing	13
Carp 162	Stair Design and Construction	4
Carp 163	Rafters Design and Framing Level 1	4
Carp 169	Advanced Stair Design Construction	4
Carp 170	Advanced Roof Framing	4

**Carpentry Technology  
Residential 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.

**Contact:** Glen Martin, ext. 4208      Paul Mueller, ext. 2635  
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Dept./No.	Course Title	Credits
Carp 115	Residential Exterior and Interior Finish	7
Carp 164	Basic Cabinet Construction	4

**Carpentry Technology-  
Residential 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.

**Contact:** Glen Martin, ext. 4208      Paul Mueller, ext. 2635  
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Dept./No.	Course Title	Credits
Carp 115	Residential Exterior and Interior Finish	7
Carp 164	Basic Cabinet Construction	4
Carp 165	Residential Remodeling Practices	4
Carp 171	Advanced Cabinetry and Wood Fabrication	6
Carp 172	Advanced Finish Carpentry	4

**Carpentry Technology  
Residential Green Construction Principles  
Certificate of Proficiency  
27 Credits**

This certificate will provide the student with up to date information, material, codes and skills related to the ever changing Green Building practices. The change from traditional building practices to more sustainable healthy and energy efficient buildings is becoming more of the norm and is certainly destined to continue into the future. Students earning this certificate will understand the economic impact on sustainable building and the systems approach as to how a house should safely and efficiently operate. Students will have the latest skills and knowledge of building a home so all systems are balanced and sustainable. Students will be familiar with Green Building materials and their proper installation, as well as energy generating and savings equipment. Students will learn how to test a home for energy efficiency and health safety.

**Contact:** Glen Martin, ext. 4208      Paul Mueller, ext. 2635  
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Dept./No.	Course Title	Credits
Carp 114	Residential Wall and Roof Framing	13
Carp 165	Residential Remodeling Practices	4
Carp 166	Deck Construction and Concrete Flatwork	4
Carp 167	Residential Material Estimating	3
Carp 168	Green Construction Principles and Practices	3

**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.



## 72 Programs of Study

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

Btac 112	Beginning Word	(5)
Btac 255	Advanced Word	(5)
Phil 112	Ethics in the Workplace	(5)

*#Satisfies related instruction requirements.*

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

### Court Reporting Computer Reporting Technologies Sequence A Associate in Applied 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.

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

Dept./No.	Course Title	Credits
#B A 145 or Btac 110 or Math	Business Computation or Business Math Applications or Eligible for Math 072, Elementary Algebra	0-5
Btac 109	Legal Terminology	3
Btac 125	Medical Terminology for Office Administration	5
#Btac 130 or Engl 109 or Engl& 101	Business Correspondence or Writing for Trades and Prof/Tech Degrees or English Composition	5
#Cmst 100 or Cmst 217 or Cmst& 220	Fundamentals of Oral Communication or Communication for Business and Professions or Public Speaking	5
Crpt 100.1	Machine Shorthand Theory 1	10
Crpt 100.2	Machine Shorthand Theory 2	10
Crpt 101.1	Machine Shorthand Theory 3	10
Crpt 101.2	Machine Shorthand 60 wpm	10
Crpt 102	Machine Shorthand 80 wpm	10-12
Crpt 133	Machine Shorthand 100 wpm	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 Coop 171	Court Reporting/Captioning Work Experience 1-3 and Work Experience Seminar	2-6 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 Btac 108 *Typing Test	Typing Speed and Accuracy 1 or Typing Speed and Accuracy 2 or 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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sweldele@greenriver.edu

Dept./No.	Course Title	Credits
#B A 145 or Btac 110 or Math	Business Computation or Business Math Applications or Eligible for Math 072, Elementary Algebra	0-5
Btac 109	Legal Terminology	3
Btac 125	Medical Terminology for Office Administration	5
#Btac 130 or Engl 109 or Engl& 101	Business Correspondence or Writing for Trades and Prof/Tech Degrees or English Composition	5
#Cmst 100 or Cmst 217 or Cmst& 220	Fundamentals of Oral Communication or Communications for Business and Professions or Public Speaking	5
Crpt 080	Machine Shorthand Lab	1
Crpt 090.1	Machine Shorthand Theory Beginning	3-4
Crpt 090.2	Machine Shorthand Theory Intermediate	3-4
Crpt 091	Machine Shorthand Theory Advanced	3-4



Crpt 092	Machine Shorthand 40 wpm	3-4
Crpt 093	Machine Shorthand 60 wpm	3-4
Crpt 094	Machine Shorthand 80 wpm	5-6
Crpt 095	Machine Shorthand 100 wpm	5-6
Crpt 096	Machine Shorthand 120 wpm	5-6
Crpt 097	Machine Shorthand 140 wpm	5-6
Crpt 098	Machine Shorthand 160 wpm	5-6
Crpt 099	Machine Shorthand 180 wpm	5-6
#Crpt 153	Court Reporting Procedures 1	5
#Crpt 154	Court Reporting Procedures 2	5
Crpt 177-179 and Coop 171	Court Reporting/Captioning Work Experience and Work Experience Seminar	2-6 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 <b>or</b> Btac 108	Typing Speed and Accuracy 1 <b>or</b> Typing Speed and Accuracy 2 <b>or</b>	
*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.

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sweldele@greenriver.edu

Dept./No.	Course Title	Credits
Btac 123	Intermediate Medical Machine Transcription	5
Btac 125	Medical Terminology for Office Administration	5
Btac 130 <b>or</b> Engl 109 <b>or</b> Engl& 101	Business Correspondence <b>or</b> Writing for Trades Prof/Tech Degree <b>or</b> 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 <b>or</b> Btac 110	Business Computation <b>or</b> Business Math Applications <b>or</b>	5
Btac 112	Beginning Word	5
Btac 124	Advance 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 <b>and</b> Coop 171	Court Reporting/Captioning Work Experience 1-3 <b>and</b> Work Experience Seminar	2
Engl 105	Grammar and Usage	5

**Scopist/Text Editor  
Certificate of Proficiency  
44 Credits**

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Dept./No.	Course Title	Credits
Btac 109	Legal Terminology	3
Btac 125	Medical Terminology for Office Administration	5
Crpt 100.1 <b>and</b> Crpt 100.2 <b>or</b> Crpt 090.1 <b>and</b> Crpt 090.2 <b>and</b>	Machine Shorthand Theory 1 <b>and</b> Machine Shorthand Theory 2 <b>or</b> Machine Shorthand Theory Beginning <b>and</b> Machine Shorthand Theory Intermediate <b>and</b>	
Crpt 091	Machine Shorthand Theory-Advanced	12-20
Crpt 101.1 <b>or</b> Crpt 092	Machine Shorthand Theory 3 <b>or</b> 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 <b>or</b> Btac 110	Business Computation <b>or</b> Business Math Applications	5
Btac 112	Beginning Word	5
Btac 130 <b>or</b> Engl& 101 <b>or</b> Engl 109	Business Correspondence <b>or</b> English Composition <b>or</b> Writing for Trades Prof/Tech 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 <b>and</b> Coop 171	Court Reporting/Captioning Work Experience 1 <b>and</b> Work Experience Seminar	1-2 1
Crpt 251	Introduction to Captioning/Alternative Careers	3

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### Text Entry Certificate of Proficiency 42 Credits

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Dept./No.	Course Title	Credits
Btac 109	Legal Terminology	3
Btac 125	Medical Terminology for Office Administration	5
Btac 130 or Engl & 101 or Engl 109	Business Correspondence or English Composition or Writing for Trades and Prof/Tech Degree	5
Crpt 098 or Crpt 136	Machine Shorthand 160 wpm or Machine Shorthand 160 wpm	6-16
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 42 credits.

Acct 110	Practical Financial Accounting 1	5
Btac 100	Fundamentals of Computers	5
Btac 110	Business Math Applications	5
Btac 112	Beginning Word	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 177 and Coop 171	Court Reporting/Captioning Work Experience 1-3 and Work Experience Seminar	1-2 1
Crpt 153	Court Reporting Procedures 1	5
Engl 105	Grammar and Usage	5
Engl 106	Vocabulary Mastery	5

### Criminal Justice Associate in Applied Science Degree 119-125 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 Engl 126 or Engl 127 or Engl 128	Writing for Trades and Prof/Tech 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 class	5
Natural Science	Select any three courses from at least two separate areas. 10 credits must be from List A of AA-DTA degree, 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 P E 102 or P E 103 or P E 111 or P E 131 or * P E 149 or P E 160 or P E 165 or P E 169	Physical Fitness Lab or Jogging or Total Physical Fitness or Aerobic Walking or Weight Training o CORE Training for Health or Exercise and Nutrition or Exercise and Health or Fitness and Health	(2) (2) (3) (2) (2) (2) (3) (3) (3)
P E 113	Group Dynamics Activities	1
Phil 240	Introduction to Ethics	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
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 119-125 credits.

Anth& 205 or Anth& 236	Biological Anthropology or Forensic Anthropology	5
Btac 100	Fundamentals of Computers	5
CJ 115	Fingerprint Science	5
CJ 177-179 and Coop 171	Criminal Justice Work Experience 1-3 and Work Experience Seminar	5 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 Phil 160	Critical Thinking or 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 35 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  
msherwood@greenriver.edu

Dept./No.	Course Title	Credits
Btac 100	Fundamentals of Computers	5
CJ& 101	Introduction to Criminal Justice	5

CJ& 105	Introduction to Corrections	5
CJ 200	Individual Rights to Criminal Justice	5
CJ 220	Multicultural Diversity in Criminal Justice	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:**

CJ 177-179 and Coop 171	Criminal Justice Work Experience 1-3 and Work Experience Seminar	(1-5) (1)
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**Note:** Students must attain a grade of 2.0 or higher in all CJ classes.

### Criminal Justice Forensic Technology Associate in Applied Science Degree 124-130 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  
msherwood@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 <b>or</b>	Writing for Trades and Prof/Tech Degrees <b>or</b>	
Engl 126 <b>or</b>	Writing: Humanities <b>or</b>	
Engl 127 <b>or</b>	Writing: Social Science <b>or</b>	
Engl 128	Research Writing: Science/Engineering/Business	5
#Math& 107	Math in Society or any college-level Math course	5
P E 101 <b>or</b>	Physical Fitness Lab <b>o</b>	(2)
P E 102 <b>or</b>	Jogging <b>or</b>	(2)
P E 103 <b>or</b>	Total Physical Fitness <b>or</b>	(3)
P E 111 <b>or</b>	Aerobic Walking <b>or</b>	(2)
P E 149 <b>or</b>	CORE Training for Health <b>or</b>	(2)
P E 131 <b>or</b>	Weight Training <b>or</b>	(2)
P E 160 <b>or</b>	Exercise and Nutrition <b>or</b>	(3)
P E 165 <b>or</b>	Exercise and Health <b>or</b>	(3)
P E 169	Fitness and Health	(3) 2-3
P E 113	Group Dynamics Activities	1
Phil 240	Introduction to Ethics	5
Photo 101	Beginning Black and White Photography	5
Photo 111	Beginning Digital Photography	5
Pols& 101 <b>or</b>	Introduction to Political Science <b>or</b>	
Pols& 202	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)	15
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	(1-5)	
Phil 115 <b>or</b> Phil 160	Critical Thinking <b>or</b> Introduction to the Philosophy of Science	(5) (5)	
Psyc 209	Fundamentals of Psychological Research	(5)	
Soc 215	Survey of Criminology	(5)	
Soc 245	Juvenile Delinquency	(5)	

*#Satisfies related instruction requirements.*

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

### 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  
msherwood@greenriver.edu

Dept./No.	Course Title	Credits
Btac 100	Fundamentals of Computers	5
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 <b>or</b> CJ& 240	Criminal Evidence <b>or</b> Introduction to Forensic Science	5 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 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.

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### 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  
msherwood@greenriver.edu

Dept./No.	Course Title	Credits
Btac 100	Fundamentals of Computers	5
CJ& 101	Introduction to Criminal Justice	5
CJ 200	Individual Rights in Criminal Justice	5
CJ 205	Criminal Evidence	5
CJ 220	Multicultural Diversity in Criminal Justice	5
CJ& 110	Criminal Law	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 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.

### Construction Design Technology Associate in Applied Science Degree 120 Credits

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

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
twaagan@greenriver.edu      awaters@greenriver.edu

Dept./No.	Course Title	Credits
<b>Required Courses:</b>		
Bus 164	Entrepreneurship and Small Business Management	5
#Cmst 100 or Cmst& 210 or Cmst& 220	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5
Coop 171	Work Experience Seminar	1
D T 100 or D T 110 and D T 112	Introduction to CADD/CAM or Introduction to AutoCAD and Introduction to KeyCreato	(7) (4) (4) 7-8
D T 101 or D T 101.1 and D T 101.2	Technical Drafting or Drafting Fundamentals and Machine Drafting 1	(7) (4) (3) 7
D T 102 or D T 102.1 and D T 102.2	Descriptive Geometry or Descriptive Geometry and Machine Drafting 2	(7) (4) (3) 7
D T 105 or Tech 100	Design Drafting Careers or Careers for the New Millennium	2
D T 125	Civil Drafting 1	5
D T 128 or D T 129	International Residential Code or International Building Code	3
D T 131	Mechanical Drafting-CADD	7
D T 141	Architectural Drafting 1	5

D T 151	Technical Illustration	7
D T 225	Civil Drafting 2	4
#D T 231 or	Mechanical Design (CADD) or Three credits of the Human Relations Related Instructions requirement	3-7
D T 241	Architectural Drafting 2	4
#Engl 109 or Engl 128	Writing for Trades and Prof/Tech Degrees or Research Writing: Science/Engineering/Business	5
Engr& 214 or I E 204	Statics or Statics and Strengths	5
GIS 121	Introduction to Geographic Information System	5
GIS 260	Cartography-Based Geographic Information System	5
#Math 116T or Math& 142 or Math& 151	Technical Mathematics 2 or Precalculus II or Calculus I	5
Phys& 114 or Phys& 221	General Physics I with Lab or Engineering Physics I with Lab	5

**Completion of a minimum of two (2) classes from the following courses:**

D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)

**Suggested Electives:** Select from the following to total 120 credits:

Carp	Any Carpentry course	(4)
D T 128	International Residential Code	(3)
D T 129	International Building Code	(3)
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)
D T 151	Technical Illustration	(7)
D T 175	Drafting Work Experience	(4-6)
D T 177-179	Drafting Work Experience 1-3	(3 ea)
D T 180-182	Leadership Skills 1-3	(1 ea)
D T 199 or 299	Independent Study-Drafting 1 or 2	(1-5 ea)
D T 200	ADDA Certification	(2)
D T 231	Mechanical Design (CADD)	(7)
D T 210	Advanced AutoCAD Development 1	(4)
D T 277-279	Drafting Work Experience 4-6	(3 ea)
Engr 106	Introduction to Engineering Problems	(3)
P E 113	Group Dynamics Activities	(1)

#Satisfies related instruction requirements.

### Design Drafting Technology Associate in Applied Science Degree 110-113 Credits

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

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Dept./No.	Course Title	Credits
<b>Required Courses:</b>		
#Cmst 100 or Cmst& 210 or Cmst& 220	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5

D T 100 or D T 110 and D T 112	Introduction to CADD/CAM or Introduction to AutoCAD and Introduction to KeyCreator	(7) (4) (4)	7-8
D T 101 or D T 101.1 and D T 101.2	Technical Drafting or Drafting Fundamentals and Machine Drafting 1	(7) (4) (3)	7
D T 102 or D T 102.1 and D T 102.2	Descriptive Geometry or Descriptive Geometry and Machine Drafting 2	(7) (4) (3)	7
D T 105 or Tech 100	Design Drafting Careers or Careers for the New Millennium		2
D T 113 or D T 236	Introduction to SolidWorks or Introduction to Inventor		4
D T 131	Mechanical Drafting-CADD		7
D T 135	3-D CADD/CAM		7
D T 151	Technical Illustration		7
#D T 231	Mechanical Design (CADD)		7
#Engl 109 or Engl 128	Writing for Trades and Prof/Tech Degrees or Research Writing: Science/Engineering/Business		5
#Math 116T or Math& 142 or Math& 151	Technical Math 2 or Precalculus II or Calculus I		5
Phys& 114 or Phys& 221	General Physics I with Lab or Engineering Physics 1 with Lab		5
<b>Three credits from the following courses:</b>			3
Indus 102.1 Mfg 101 and Mfg 102	Welding Survey 1 Introduction to Machining and Manufacturing and Conventional Milling and Turning	(3) (3) (3)	
<b>Four credits from the following courses:</b>			4-5
Carp 167 Engr& 214 I E 189 I E 204	Residential Material Estimating Statics Basic Metallurgy Statics and Strengths	(4) (5) (4) (5)	
<b>Suggested Electives: Additionally, complete 28 credits from the following list:</b>			28
Bus 164 D T 110 D T 113 D T 115 D T 125 D T 128 D T 129 D T 141 D T 142 D T 145 D T 146 D T 147 D T 200 D T 210 D T 225 D T 232 D T 236 D T 237 D T 238 D T 241 GIS 121 GIS 260 I E 114 I E 210 I E 214 I E 215	Entrepreneurship and Small Business Management Introduction to AutoCAD Introduction to SolidWorks Geometric Dimensioning and Tolerancing Civil Drafting 1 International Residential Code International Building Code Architectural Drafting 1 REVIT Architecture 1 Structural Drafting-Steel Structural Drafting-Concrete Structural Drafting-Wood ADDA Certification Advanced AutoCAD Development 1 Civil Drafting 2 Drafting and Design Projects (CADD) Introduction to Inventor Advanced 3-D CADD/CAM Inventor 2 Architectural Drafting 2 Introduction to GIS Cartography-Based GIS CATIA-2-D CATIA-Modeling CATIA-3-D Solids CATIA-3-D Surfacing	(5) (4) (4) (4) (5) (3) (3) (5) (4) (4) (4) (4) (2) (4) (4) (7) (4) (4) (3) (4) (5) (5) (4) (7) (5) (4)	

**A maximum of eight credits from the following courses:** (8)

Carp	Any Carpentry course	(4)
Engr 106	Introduction to Engineering Problems	(3)
Engr& 214	Statics	(5)
I E 189	Basic Metallurgy	(4)
I E 204	Statics and Strengths	(5)

**A maximum of eight credits from the following courses:** (8)

Carp	Any Carpentry course	(1-8)
Indus	Any Industry shop/lab course	(1-8)
Mfg	Any Manufacturing shop/lab course	(1-8)
Weld	Any Welding shop/lab course	(1-8)

**A maximum of 13 credits from the following courses:** (13)

Coop 171	Work Experience Seminar	(1)
D T 175	Drafting Work Experience	(4-12)
D T 177 or D T 178 or D T 179	Drafting Work Experience 1 or Drafting Work Experience 2 or Drafting Work Experience 3	(3) (3) (3)
D T 180 or D T 181 or D T 182	Leadership Skills 1 or Leadership Skills 2 or Leadership Skills 3	(1) (1) (1)
D T 199 or D T 299	Independent Study-Drafting 1 or Independent Study-Drafting 2	(1-5) (1-5)
D T 277 or D T 278 or D T 279	Drafting Work Experience 4 or Drafting Work Experience 5 or Drafting Work Experience 6	(3) (3) (3)
P E 113	Group Dynamic Activities	(1)
Tech 100	Careers for the New Millennium	(2)

**A maximum of ten credits from the following courses:** (10)

Engl& 101	English Composition	(5)
Math 117T	Technical Mathematics 3	(5)
Math& 141	Precalculus I	(5)
Math& 151	Calculus I	(5)
Math& 152	Calculus II	(5)
Phys& 115	General Physics II with Lab	(5)

#Satisfies related instruction requirements.

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

**Manufacturing Technology-CIM**  
Associate of Applied Science Degree  
110-111 Credits

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
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Dept./No.	Course Title	Credits
<b>Required Courses:</b>		
#Cmst 100 or Cmst& 210 or Cmst& 220	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5
D T 100 or D T 110 and D T 112	Introduction to CADD/CAM or Introduction to AutoCAD and Introduction to CADKey	(7) (4) (4)
D T 101 or D T 101.1 and D T 101.2	Technical Drafting or Drafting Fundamentals and Machine Drafting 1	(7) (4) (3)
D T 115	Geometric Dimensioning and Tolerancing	4
D T 131	Mechanical Drafting (CADD)	7
D T 135	3-D CADD/CAM	7
#D T 231	Mechanical Design (CADD)	7
#Engl 109 or Engl 128	Writing for Trades and Prof/Tech Degrees or Research Writing: Science/Engineering/Business	5

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I E 189	Basic Metallurgy	4
Mfg 101 or Mfg 102	Introduction to Machining and Manufacturing or Conventional Milling and Turning	13
Mfg 105	Intermediate CNC Machining	13
Mfg 106 or Mfg 177	Special Machining Practices or Manufacturing Work Experience	13
#Math 116T Math& 142	Technical Math 2 or Precalculus II	5

### Area of Emphasis:

<b>A. Machining Emphasis:</b>	Select 13 credits from the following courses:	13
Mfg 102	Conventional Milling and Turning	(1-13)
Mfg 103	Conventional/CNC Machining Level 1	(1-13)

<b>B. Design Drafting Emphasis:</b>	Select 13 credits from the following courses:	13
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D T 105	Design Drafting Careers	(2)
D T 237	Advanced 3-D CADD/CAM	(4)
Indus 102	Welding Survey 1	(3)
Mfg 101 or Mfg 102	Introduction to Machining and Manufacturing or Conventional Milling and Turning	(4) (4)

#Satisfies related instruction requirements.

### Mechanical Design Technology Associate in Applied Science Degree 120 Credits

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

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

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
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Dept./No.	Course Title	Credits
#Cmst 100 or Cmst& 210 or Cmst &220	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5
D T 100 or D T 110 and D T 112	Introduction to CADD/CAM or Introduction to AutoCAD and Introduction to KeyCreator	(7) (4) (4) 7-8
D T 101 or D T 101.1 and D T 101.2	Technical Drafting or Drafting Fundamentals and Machine Drafting 1	(7) (4) (3) 7
D T 102 or D T 102.1 and D T 102.2	Descriptive Geometry or Descriptive Geometry and Machine Drafting 2	(7) (4) (3) 7
D T 105 or Tech 100	Design Drafting Careers or Careers for the New Millennium	2
D T 113 or D T 236	Introduction to SolidWorks or Introduction to Inventor	4 4
D T 115	Geometric Dimensioning and Tolerancing	4
D T 131	Mechanical Drafting (CADD)	7
D T 135	3-D CADD/CAM	7
D T 151	Technical Illustration	7
D T 145	Structural Drafting-Steel	5
D T 231	Mechanical Design (CADD)	7
D T 232	Drafting and Design Projects (CADD)	7
D T 237	Advanced 3-D CADD/CAM	4
#Engl 109 or	Writing for Trades and Prof/Tech Degrees or	

Engl 128	Research Writing: Science/Engineering/Business	
Engr& 214 or I E 204	Statics or Statics and Strengths	5
I E 189	Basic Metallurgy	4
Phys& 114 or Phys& 221	General Physics I with Lab or Engineering Physics I with Lab	5

<b>#Ten credits from the following Math courses:</b>		<b>10</b>
Math 116T	Technical Mathematics 2	(5)
Math 117T	Technical Mathematics 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 from the following courses to total 120 credits:

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

#Satisfies related instruction requirements.

### Architectural Drafting Proficiency Certificate of Proficiency 39-42 Credits

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
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Dept./No.	Course Title	Credits
<b>Core Requirements:</b>		
D T 100 or D T 110 and D T 112	Introduction to CADD/CAM or Introduction to AutoCAD and Introduction to Keycreator	(7) (4) (4) 7-8
D T 101 or D T 101.1 and D T 101.2	Technical Drafting or Drafting Fundamentals and Machine Drafting	(7) (4) (3) 7
D T 105 or Tech 100	Design Drafting Careers or Careers for the New Millennium	2
D T 131	Mechanical Drafting (CADD)	7
D T 141	Architectural Drafting 1	5
D T 241	Architectural Drafting 2	4

**Complete a minimum of 2 classes from the following courses: 7-9**

Carp 167	Residential Material Estimating	(4)
D T 125	Civil Drafting 1	(5)
D T 128	International Residential Code	(3)
D T 129	International Building Codes	(3)
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)
D T 225	Civil Drafting 2	(4)

**Architectural, Structural and Civil Drafting  
Certificate  
74 Credits**

This certificate program develops entry-level skills in preparing detail drawings, using board drafting skills and computer-aided drafting skills, from sketches, notes, specifications and technical data furnished by architects, engineers, surveyors, builders, and firms connected with the construction and building industry. Students completing this program may enter into the following Associate of Applied Science degree programs - Construction Design Technology and Design Drafting Technology.

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
twaagan@greenriver.edu      awaters@greenriver.edu

Dept./No.	Course Title	Credits
<b>Core Requirements</b>		
#Cmst 100 or Cmst& 210 or Cmst& 220	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5
D T 100 or D T 110 and D T 112	Introduction to CADD/CAM or Introduction to AutoCAD and Introduction to KeyCreator	(7) (4) (4) 7-8
D T 101 or D T 101.1 and D T 101.2	Technical Drafting or Drafting Fundamentals and Machine Drafting 1	(7) (4) (3) 7
D T 102 or D T 102.1 and D T 102.2	Descriptive Geometry or Descriptive Geometry and(4) Machine Drafting 2 (3)	(7)  7
D T 105 or Tech 100	Design Drafting Careers or Careers for the New Millennium	2
D T 125	Civil Drafting 1	5
D T 131	Mechanical Drafting (CADD)	7
D T 141	Architectural Drafting 1	5
D T 142 or D T 145 or D T 146 or D T 147	REVIT Architecture 1 or Structural Drafting-Steel or Structural Drafting-Concrete or Structural Drafting-Wood	4
#D T 231 or	Mechanical Design (CADD) or Three credits of the Human Relations Related Instruction requirement	3-7
D T 225 or D T 241	Civil Drafting 2 or Architectural Drafting 2	4
#Engl 109 or Engl 128	Writing for Trades and Prof/Tech Degrees or Research Writing: Science/Engineering/Business	5
#Math 116T or Math& 142 or Math& 151	Technical Mathematics 2 or Precalculus II or Calculus I	5

**Electives:** Students may choose from the following courses to total 74 credits.

Carp	Any Carpentry course(s) Except Carp 161, Residential Print Reading)	(1-8)
Coop 171	Work Experience Seminar	(1)
D T 128	International Residential Code	(3)
D T 129	International Building Code	(3)
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)
D T 151	Technical Illustration	(7)
D T 177	Drafting Work Experience 1	(3)
D T 180-181	Leadership Skills 1-2	(1 ea)
D T 199 or 299	Independent Study-Drafting1 or 2	(1-5 ea)
D T 200	ADDA Certification	(2)

D T 210	Advanced AutoCAD Development 1	(4)
D T 225	Civil Drafting 2	(4)
D T 231	Mechanical Design (CADD)	(7)
D T 241	Architectural Drafting 2	(4)
Engr 106	Introduction to Engineering Problems	(3)
Engr& 214 or I E 204	Statics or Statics and Strengths	(5)

#Satisfies related instruction requirements.

**Civil Drafting Proficiency  
Certificate of Proficiency  
40-42 Credits**

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
twaagan@greenriver.edu      awaters@greenriver.edu

Dept./No.	Course Title	Credits
<b>Core Requirements:</b>		
D T 100 or D T 110 and D T 112	Introduction to CADD/CAM or Introduction to AutoCAD and Introduction to KeyCreator	(7) (4) (4) 7-8
D T 101 or D T 101.1 and D T 101.2	Technical Drafting or Drafting Fundamentals and Machine Drafting 1(3)	(7) (4) 7
D T 105 or Tech 100	Design Drafting Careers or Careers for the New Millennium	2
D T 131	Mechanical Drafting-CADD	7
D T 125	Civil Drafting 1	5
D T 225	Civil Drafting 2	4

**Complete a minimum of 2 classes from the following courses:** 8-9

D T 141	Architectural Drafting 1	(5)
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)
D T 241	Architectural Drafting 2	(4)

**Drafting Proficiency  
Certificate of Proficiency  
39-44 Credits**

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
twaagan@greenriver.edu      awaters@greenriver.edu

Dept./No.	Course Title	Credits
<b>Core Requirements:</b>		
D T 100 or D T 110 and D T 112	Introduction to CADD/CAM or Introduction to AutoCAD and Introduction to KeyCreator	(7) (4) (4) 7-8
D T 101 or D T 101.1 and D T 101.2	Technical Drafting or Drafting Fundamentals and Machine Drafting 1	(7) (4) (3) 7
D T 102 or D T 102.1 and D T 102.2	Descriptive Geometry or Descriptive Geometry and Machine Drafting 2	(7) (4) (3) 7
D T 105 or Tech 100	Design Drafting Careers or Careers for the New Millennium	2
D T 131	Mechanical Drafting-CADD	7

**Complete a minimum of nine (9) credits but no more than 13 credits from the following courses:**

D T 113	Introduction to SolidWorks	(4)
D T 125	Civil Drafting 1	(5)
D T 135	3-D CADD/CAM	(7)
D T 141	Architectural Drafting 1	(5)
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)

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D T 147	Structural Drafting-Wood	(4)
D T 151	Technical Illustration	(7)
D T 225	Civil Drafting 2	(4)
D T 231	Mechanical Design (CADD)	(7)
D T 232	Drafting and Design Projects (CADD)	(7)
D T 236	Introduction to Inventor	(4)
D T 237	Advanced 3-D CADD/CAM	(4)
D T 238	Inventor II	(4)
D T 241	Architectural Drafting 2	(4)
I E 114	CATIA-2-D	(4)
I E 210	CATIA-Modeling	(7)
I E 214	CATIA-3-DSolids	(5)
I E 215	CATIA-3-D Surfacing	(4)

### Mechanical CAD Proficiency Certificate of Proficiency 36 Credits

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
twaagan@greenriver.edu      awaters@greenriver.edu

Dept./No.	Course Title	Credits
D T 100 or	Introduction to CADD/CAM or	(7)
D T 110 and	Introduction to AutoCAD and	(4)
D T 112	Introduction to Keycreator	(4)
D T 101 or	Technical Drafting or	(7)
D T 101.1 and	Drafting Fundamentals and	(4)
D T 101.2	Machine Drafting 1	(3)
D T 131	Mechanical Drafting-CADD	7
D T 135	3D CADD/CAM	7
D T 231	Mechanical Design-CADD	7

### Mechanical 3-D CAD Certificate of Proficiency 43-44 Credits

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
twaagan@greenriver.edu      awaters@greenriver.edu

Dept./No.	Course Title	Credits
D T 100 or	Introduction to CADD/CAM or	(7)
D T 110 and	Introduction to AutoCAD and	(4)
D T 112	Introduction to Keycreator	(4)
D T 101 or	Technical Drafting or	(7)
D T 101.1 and	Drafting Fundamentals and	(4)
D T 101.2	Machine Drafting 1	(3)
D T 131	Mechanical Drafting (CADD)	7
D T 135	3D CADD/CAM	7
D T 231	Mechanical Design (CADD)	7
D T 113 or	Introduction to Solidworks or	
D T 236	Introduction to Inventor	4
D T 237	Advanced 3D CADD/CAM	4

### Mechanical Drafting Certificate 76 Credits

This certificate program develops entry-level board drafting and computer-aided drafting skills in mechanical drafting and design. The ANSI (American National Standards Institute) and the ASME (American Society of Mechanical Engineers) drafting and design standards will be taught and reinforced as students prepare working 2-D and 3-D drawings of objects for fabrication with AutoCAD, KeyCreator, and Mastercam application software. Throughout this course of study, students will be required to use sketches, notes, technical literature, and personal research to complete assignments. Students completing this program may enter into one of three Associate of Applied Science degree programs: Design Drafting Technology, Mechanical Design Technology, or Manufacturing Technology-CIM.

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
twaagan@greenriver.edu      awaters@greenriver.edu

Dept./No.	Course Title	Credits
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#### Core Requirements:

#Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220	Public Speaking	5
D T 100 or	Introduction to CADD/CAM or	(7)
D T 110 and	Introduction to AutoCAD and	(4)
D T 112	Introduction to KeyCreator	(4)
D T 101 or	Technical Drafting or	(7)
D T 101.1 and	Drafting Fundamentals and	(4)
D T 101.2	Machine Drafting 1	(3)
D T 102 or	Descriptive Geometry or	(7)
D T 102.1 and	Descriptive Geometry and	(4)
D T 102.2	Machine Drafting 2	(3)
D T 105 or	Design Drafting Careers or	
Tech 100	Careers for the New Millennium	2
D T 113 or	Introduction to SolidWorks or	
D T 236	Introduction to Inventor	4
D T 115	Geometric Dimensioning and Tolerancing	4
D T 131	Mechanical Drafting (CADD)	7
D T 135	3-D CADD/CAM	7
#D T 231	Mechanical Design (CADD)	7
D T 237	Advanced 3-D CADD/CAM	4
#Engl 109 or	Writing for Trades and Prof/Tech Degrees or	
Engl 128	Research Writing: Science/Engineering/Business	5
Indus 102.1 or	Welding Survey 1 or	
Mfg 101 or	Introduction to Machining and	
	Manufacturing or	(4)
Mfg 102	Conventional Milling and Turning	(4)
#Math 116T or	Technical Mathematics 2 or	
Math& 142 or	Precalculus II or	
Math& 151	Calculus I	5

#### Electives: Students must choose from the following courses to total 76 credits:

Coop 171	Work Experience Seminar	(1)
D T 113	Introduction to SolidWorks	(4)
D T 161	Electrical and Electronic Drafting	(5)
D T 177	Drafting Work Experience 1	(3)
D T 180-181	Leadership Skills 1-2	(1 ea)
D T 199 or 299	Independent Study-Drafting 1 or 2	(1-5)
D T 200	ADDA Certification	(2)
D T 210	Advanced AutoCAD Development 1	(4)
D T 232	Drafting and Design Projects (CADD)	(7)
D T 236	Introduction to Inventor	(4)
D T 237	Advanced 3-D CADD/CAM	(4)
D T 238	Inventor II	(3)
D T 261	Printed Circuit Board Design	(4)
D T 277 or	Drafting Work Experience 4 or	(1)
D T 278 or	Drafting Work Experience 5 or	(1)
D T 279	Drafting Work Experience 6	(1)
Engr 106	Introduction to Engineering Problems	(3)



Engr& 214 or	Statics or	(5)
I E 204	Statics and Strengths	(5)
I E 114	CATIA-2-D	(4)
I E 210	CATIA-Modeling	(7)
I E 214	CATIA-3-D Solids	(5)
I E 215	CATIA-3-D Surfacing	(4)

#Satisfies related instruction requirements.

**Structural Drafting**  
**Certificate of Proficiency**  
**37-42 Credits**

**Contact:** Terry Waagan, ext. 4342      Adam Waters, ext.4321  
 twaagan@greenriver.edu      awaters@greenriver.edu

Dept./No.	Course Title	Credits
<b>Core Requirements:</b>		
D T 100 or	Introduction to CADD/CAM or	(7)
D T 110 and	Introduction to AutoCAD and	(4)
D T 112	Introduction to Keycreator	(4) 7-8
D T 101 or	Technical Drafting or	(7)
D T 101.1 and	Drafting Fundamentals and	(4)
D T 101.2	Machine Drafting 1	(3) 7
D T 105 or	Design Drafting Careers or	
Tech 100	Careers for the New Millennium	2
D T 131	Mechanical Drafting (CADD)	7
<b>Complete a minimum of two (2) classes from the following courses:</b>		8
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)

<b>Complete a minimum of two (2) classes from the following courses:</b>		6-10
D T 128	International Residential Code	(3)
D T 129	International Building Code	(3)
D T 125	Civil Drafting 1	(5)
D T 141	Architectural Drafting 1	(5)
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)
D T 225	Civil Drafting 2	(4)
D T 241	Architectural Drafting 2	(4)

**Fundamentals of Caregiving:**  
**Introduction to Health Occupations**  
**Certificate of Proficiency**  
**8 Credits**

Students learn the essential skills necessary for becoming an entry level health care and human services provider which include basic workplace skills and ethics, responsibilities of a care provider, communication skills, patient rights and confidentiality. Students are also instructed in general patient and workplace safety rules. Students earn CPR and Basic First Aid certificates, HIV/AIDS certificate and Fundamentals of Caregiving certificate with completion of the course. Students are provided mock hands-on, supervised experience in patient/client related tasks. Seminar portion teaches students the essentials of resume writing and job interviewing.

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

**Contact:** Leslie Kessler, ext. 4555  
 lkessler@greenriver.edu

Dept./No.	Course Title	Credits
<b>Fall Quarter:</b>		
H Hsc 110	Fundamentals of Caregiving: Introduction to Health Occupation	8

**Early Childhood Education and Diversity Studies**  
**Associate in Applied Science-Transfer (AAS-T)**  
**94-99 Credits**

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

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

**Basic Requirements:**

All transfer degrees, have basic requirements for graduation:

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

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

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

**Lab Science Requirements:** Select 5-6 credits from the following list of lab science courses:

Biol& 100	Survey of Biology	(5)
Biol 103	Introduction to Botany	(5)
Chem& 121	Introduction to Chemistry	(5)
Chem& 131	Introduction to Organic Chemistry and Biochemistry	(5)
Chem& 140	General Chemistry Prep with Lab	(6)
Chem& 161	General Chemistry with Lab I	(6)
Chem& 162	General Chemistry with Lab II	(6)
Chem& 163	General Chemistry with Lab III	(6)
Chem& 261	Organic Chemistry with Lab I	(6)
Chem& 262	Organic Chemistry with Lab II	(6)
Chem& 263	Organic Chemistry with Lab III	(6)
Geol& 101	Introduction to Physical Geology	(5)
Geol 206	Earth History	(5)
Geol& 208	Geology of the 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)

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Phys& 223	Engineering Physics III with Lab	(5)	
<b>Diversity Studies Requirements: (25 credits)</b>			
Select 5 credits from the following list of diversity studies courses:		<b>5</b>	
Ames 100	Introduction to American Minority and Ethnic Studies	(5)	
Engl 247 <b>or</b> Phil 238 <b>or</b>	American Ethnic Literature <b>or</b> Introduction to the Philosophy of Human Rights	(5) (5)	
<b>and</b>			
Select an additional 20 credits from the following courses to satisfy the 25 credits of Diversity Studies requirements:		<b>20</b>	
Ames 150	Race and Ethnicity in the Pacific Northwest	(5)	
Anth& 206	Cultural Anthropology	(5)	
Anth& 210	Indians of North America	(5)	
CJ 220	Multicultural Diversity in Criminal Justice	(5)	
Cmst 238	Intercultural Communication	(5)	
Cmst 265	Introduction to Popular Culture	(5)	
Engl 160	Literature By and About Women	(5)	
Engl 161	Cultures of Desire	(5)	
Engl 163	The Poetics of Rap and Hip Hop	(5)	
Engl 165	Introduction to the Myths of the World	(5)	
Engl 168	Introduction to Irish Literature	(5)	
Engl 247	American Ethnic Literature	(5)	
Engl 248	African American Literature	(5)	
Engl 249	U.S. Latino Literature	(5)	
Engl& 256	World Literature III: 19th-21st Century	(5)	
Engl 257	Non-Western World Literature	(5)	
Film 121	Contemporary American Films	(5)	
Film 191	Latin America in Film	(5)	
Geog& 200	Human Geography	(5)	
Hist 103	The Modern World	(5)	
Hist& 215	Women in United States History	(5)	
Hist 224	African-American History	(5)	
Hist 226	Asian-American History	(5)	
Hist 228	Latinos in the United States	(5)	
Hist 233	History of Latin America	(5)	
Human 190	Latin American Culture Through Literature	(5)	
Human 191	Latin America in Film	(5)	
Human 224	Women and World Religions	(5)	
Phil 206	Gender and Philosophy	(5)	
Phil 238	Introduction to Philosophy of Human Rights	(5)	
Pols& 204	Comparative Government	(5)	
Soc 205	Sociology of Disability	(5)	
Soc 220	Sex and Gender in Society	(5)	
Span 221	Spanish IV	(5)	
Span 222	Spanish V	(5)	
Span 223	Spanish VI	(5)	
<b>Early Childhood Education Core Requirements:</b>		<b>50-53</b>	
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 Relationship	3	
Educ& 130	Guiding Behavior	3	
#Educ 210	Assisting Practicum	3-6	
Educ 240	Multicultural/Anti-Bias Issues in Education	5	
Eced/Educ	Electives	5	

### Early Childhood Education Paraeducator Associate in Applied Science-Transfer (AAS-T) 93-94 Credits

Paraeducators are a valuable asset for teachers in providing support and assistance in instruction and other direct services to students, and in helping to ensure a positive, safe, and supportive learning community. Based on the Washington State Paraeducator standards, the program provides students with the training needed to work as effective members of instructional teams. Core competencies covered in this program prepare paraeducators to effectively support and extend instruction and services, thereby increasing student learning. These core competencies revolve around the areas of instructional strategies, behavior management, and human growth and development. The coursework is offered partially online, as well as in the classroom, drawing on the expertise of local professionals and schools.

Through advising, the student can match their practicum placements and a portion of their course work to early childhood, elementary or secondary education with an emphasis in special education, ESOL classrooms, and other specialized populations.

This is a dual-purpose degree program that is intended to prepare students for employment as paraeducators with transfer options to specific baccalaureate degree programs.

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

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
<b>Basic Skills Requirements</b>		
#Engl& 101	English Composition	5
<b>#Select one 5-credit course from the following</b>		
Math& 107	Math in Society	(5)
Math& 141	Precalculus I	(5)
Math 147	Finite Math for Business and Social Science	(5)
Math& 148	Business Calculus	(5)
Math& 171	Math for Elementary Education I	(5)
<b>Humanities/Fine Arts</b>		
Art& 100	Art Appreciation	5
#Cmst& 220	Public Speaking	5
Musc& 105	Music Appreciation	5
<b>Social Science</b>		
Anth& 100 <b>or</b> Anth& 206	Survey of Anthropology <b>or</b> Cultural Anthropology	5
Psyc& 100	General Psychology	5
<b>Natural Science</b>		
Biol& 100 <b>or</b> Geol& 101	Survey of Biology <b>or</b> introduction to Physical Geology	5
<b>Program Core:</b>		
Eced& 105 <b>or</b> Educ& 205	Introduction to Early Childhood Education <b>or</b> Introduction to Education with Field Experience	5
Eced& 107	Health, Safety and Nutrition	5
Eced 112	Technology in Education	3
Eced& 180	Language and Literacy Development	3
Eced& 190	Observation and Assessment	3
Educ& 115	Child Development	5
Educ& 130	Guiding Behavior	3
Educ 191	The Role of the Paraeducator	3
Educ& 204	Exceptional Child	5
#Educ 210	Assisting Practicum	6
Educ 245	Challenging Behaviors in Young Children	2
Educ 293	Issues of Child Abuse	2
Electives	Any Eced and Educ	8-9

**\*NOTE:**

1. You must consult with an appropriate advisor to obtain information on specific requirements of the receiving baccalaureate institution.
2. Some courses may have prerequisites. See course catalog for descriptions.

**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.

**Contact:** Diana Holz, ext. 4334      Leslie Kessler, ext. 455  
 dholz@greenriver.edu      lkessler@greenriver.edu

Dept./No.	Course Title	Credits
#B A 145	Business Computation	
	Any Acomp 100 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& 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
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 112	Technology in Education	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	5

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

#Eced 124	Early Childhood Education Practicum 2	(2)
Eced 124.1	Child Development Associate Practicum 1	(3)
Eced 124.2	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** 12-15  
 Any Eced or Educ class numbered 100 or higher.

#Satisfies related instruction requirements.

**Early Childhood Education**  
**Certificate of Proficiency**  
**44 Credits**

This certificate program is for students wishing to study young children. It can be used as an entry-level training or as a specialization in areas of infant/toddler care, preschool, before and after school care, or center management.

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

Dept./No.	Course Title	Credits
<b>Students must choose from the following courses to total 44 credits:</b>		
Eced& 105	Introduction to Early Childhood Education	5
Eced& 107	Health, Safety and Nutrition	5
Eced& 120	ECE Practicum 1: Nurturing Relationships	2
Eced 124	Early Childhood Education Practicum 2	2
Eced 112	Technology in Education	3
Educ& 115	Child Development	5
Educ& 130	Guiding Behaviors	3
Educ 240	Multicultural/Anti-Bias Issues in Education	3-5

**Electives or Areas of Specialization** 14-16  
 Any Eced or Educ class numbered 100 or higher

- Areas of Specialization include:
- Child Development Associates (CDA)
  - Montessori Teaching
  - Infant/Toddler Care Giving
  - Center Management
  - School-age Programs
  - Family Child Care

Any combination of Eced or Educ practicum maybe taken to satisfy practicum classes for this certificate.

Educ 210 may count toward practicum or may be used as an elective.

**Early Childhood Assistant Teacher**  
**Certificate of Proficiency**  
**29 Credits**

The Early Childhood Assistant training is an introduction to early learning including methods of interacting with young children in the areas of art, music and movement. It prepares students to assume the role of a teacher's aide. Students are trained in the basic child care techniques of child development, health and safety, and guidance and discipline. In addition, they are completers of Step 6 on the Washington Career Lattice for Early Care and Education Professionals.

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

Dept./No.	Course Title	Credits
Eced 100	Basic STARS Training	3
Eced& 105	Introduction to Early Childhood Education	5
Eced& 107	Health, Safety and Nutrition	5
Eced& 120	ECE Practicum 1: Nurturing Relationships	2
Eced 165	Art for Children	3
Eced 175	Music and Movement Activities	3
Educ& 115	Child Development	5
Educ& 130	Guiding Behavior	3

**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.

**Contact:** 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 124.1	CDA Practicum 1	3
Eced 124.2	CDA Practicum 2	3

**Early Childhood Education  
Instructional Paraeducator  
Certificate of Proficiency  
44 Credits**

This certificate program prepares students for positions in both public and private school classrooms. Based on the Washington State Paraeducator standards, the certificate provides students training needed to work as effective members of instructional teams. Core competencies covered in this program prepare instructional aides to effectively support and extend instruction and services, thereby increasing student learning. These core competencies revolve around the areas of instructional strategies, behavior management, and human growth and development. The coursework is offered partially online, as well as in the classroom, drawing on the expertise of local professionals and schools.

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

Dept No.	Course Title	Credits
Eced& 105 or Educ& 205	Introduction to Early Childhood Education or Introduction to Education with Field Experience	5
Eced& 107	Health, Safety and Nutrition	5
Eced 112	Technology in Education	3
Eced& 120	ECE Practicum 1: Nursing Relationships	2
Eced& 180	Language and Literacy Development	3
Eced&190	Observation and Assessment	3
Educ& 115	Child Development	5
Educ& 130	Guiding Behavior	3
Educ 191	The Role of the Paraeducator	3
Educ& 204	Exceptional Child	5
Educ 210	Assisting Practicum	3
Educ 245	Challenging Behaviors in Young Children	2
Educ 293	Issues of Child Abuse	2

**Early Childhood Education  
Montessori Teaching  
Certificate of Proficiency  
35 Credits**

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

Dept./No.	Course Title	Credits
Eced 181	Montessori Practicum 1	4
Eced 182	Montessori Practicum 2	4
Eced 211	Introduction to Montessori	4
Eced 212	Montessori 2	4
Eced 213	Montessori 3	4
Eced 265	Supervised Montessori Teaching	4
Eced 297	Montessori Intensive	6
Educ& 115	Child Development	5

**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.

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

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

*#Satisfies related instruction requirements.*

**State Initial Early Childhood Education Certificate  
(Statewide)  
Certificate of Proficiency  
12 Credits**

This is an initial certificate that serves as a point of entry or a continuation of professional development from the Level One Core Competencies for Early Care and Education Professionals. The initial certificate is the first "stackable certificate" providing a foundation for the Early Childhood Education (ECE) State Credential and the ECE Associate of Applied Arts Degree. After completion, students are on Level 5 of the Washington State Career Lattice.

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

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

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

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

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

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

**Area of Specialization:**  
Eced& 139      Administration of Early Learning Programs      3

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

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

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

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

**Area of Specialization:**  
Eced& 134      Family Child Care      3

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

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

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

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

**Area of Specialization:**  
Educ& 130      Guiding Behavior      3

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

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

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

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

**Area of Specialization:**  
Eced& 132      Infant and Toddler-Nurturing Care      3

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

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

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

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

**Area of Specialization:**  
Eced& 136      School-Age Care      3

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

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

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

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vulnerabilities of an organization's IT resources, and how to plan and implement security measures and practices for those resources.

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

### Entry Requirements:

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

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

- IT 102 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

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

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

Dept./No.	Course Title	Credits
<b>Communication Skills</b> (15 credits)		
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
Engl& 101	English Composition	5
Engl 335	Advanced Technical Writing	5
<b>Quantitative/Symbolic Reasoning Skills</b> (5 credits)		
Math 108 <b>or</b>	Contemporary Math for Information Technology <b>or</b>	
Math& 141 <b>or</b> higher	Precalculus I	5
<b>Humanities</b> (10 credits)		
Cmst 338	Diversity in the Workplace	5
Phil 412	Professional Ethics	5
<b>Social Sciences</b> (10 credits)		
Ten credits from the list of Social Science courses approved for the AA-DTA degree		10
<b>Natural Sciences</b> (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
<b>Additional General Education</b> (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
<b>Core Requirements</b> (50 credits)		
IT 310	Routing and Switching in the Enterprise	5
IT 335	Network Security Foundations and Policies	5
IT 340	Network Security and Firewalls	5
IT 344	Virtualization and Storage	5
IT 360	Introduction to Computer Forensics and Vulnerability Assessment	5
IT 385	Scripting for Windows and Linux	5
IT 390	Mobile Devices and Wireless Networking	5

	in the Enterprise	5
IT 410	Designing and Supporting Computer Networks	5
IT 460	Threat Analysis	5
IT 490	Capstone: Networking and Security	5

### Information Technology Electives (45 credits)

Information Technology or Computer Science courses numbered 100 or higher 45

### Electives (25 credits)

25 credits from any courses numbered 100 or higher 25

## Information Technology Software Development Bachelor of Applied Science (BAS) 180 Credits

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

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

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

### Entry Requirements:

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

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

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

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

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

**Information Technology  
Systems  
Associate in Applied Science-Transfer Degree (AAS-T)  
90 Credits**

This degree program prepares students for entry into a Bachelor of Applied Science in Information Technology degree program at Green River College. In addition, this applied associate's degree program prepares students for entry-level employment in a variety of IT positions, such as help desk technician, technical support specialist, network technician, and network or computer systems administrator.

Students in this degree program receive foundational training in a broad range of networking, systems administration, and software development, resulting in a balanced, well-rounded knowledge of information technology. Students complete four courses on key advanced networking topics or four courses in programming and database design. In addition to these specialized courses, students learn key interpersonal communication skills sought by employers and complete a minimum of 120 hours of information technology-related work experience.

Help desk technicians troubleshoot hardware, software, and operating system problems end users report (usually via telephone). Technical support specialists install, configure, update, troubleshoot, and repair computer hardware, software, operating systems, and peripheral devices. Network technicians and administrators install, support, and maintain an organization's network infrastructure. System administrators install, support, and maintain an organization's network servers and directory services infrastructure.

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

Dept./No.	Course Title	Credits
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<b>General Education Requirements</b>		
#Cmst& 210 <b>or</b> Cmst& 220 <b>or</b> Cmst& 230	Interpersonal Communication <b>or</b> Public Speaking <b>or</b> Small Group Communication	5
#Engl& 101	English Composition	5
†Any Social Science course from the AA-DTA degree <b>or</b> Any Natural Science List A course from the AA-DTA degree		5
#Math 108 <b>or</b> Math& 141 <b>or</b> higher	Contemporary Math for Information Technology <b>or</b> PreCalculus I or higher	5

**Note:** Students planning to pursue the Bachelor of Applied Science (BAS) degree in IT Network Administration and Security should complete MATH 108. Students planning to continue pursue the Bachelor of Applied Science degree in IT Software Development should complete MATH& 141 or higher.

<b>Core Requirements:</b>		
*Keyboarding	30 words per minute (typing test)	
IT 102	Programming Fundamentals	5
**IT 114 <b>or</b>	CompTIA A+ Certification Preparation <b>or</b> 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	4
IT 160	Windows Server Administration I	5
IT 190	Linux Administration I	5
IT 201	Database Fundamentals	5
IT 236	CompTIA Advanced Security Practitioner Certification Preparation	5
IT 240	Windows Server Administration II	5

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

IT 210	Introduction to Routing and Switching	5
IT 243	Linux Administration II	5
IT 245	Windows Server Administration III	5

**OR**

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

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

**Practical Experience: Four credits from the following courses:** 4

IT 175	Student Assistant	(0-4)
IT 178	Information Technology Work Experience	(0-4)

**Electives:** 0 or 7

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

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

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

**Information Technology  
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 Programming Fundamentals
- 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](mailto:itdegrees@greenriver.edu)

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

**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.

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

Dept./No.	Course Title	Credits
IT 131	Networking Fundamentals	5
IT 160	Windows Server Administration I	5
IT 102 <b>or</b>	Programming Fundamentals <b>or</b>	
IT 114 <b>or</b>	CompTIA A+ Certification Preparation <b>or</b>	
IT 135 <b>or</b>	CompTIA Security+ Certification Preparation <b>or</b>	
IT 201	Database Fundamentals	5-7

**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 grade of 2.5 or higher on all courses in this program. 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.

- CS& 131 Computer Science I – C++
- CS 132 C++ Data Structure
- CS& 141 Computer Science I – Java



- CS 145 Java 2 Data Structure
- IT 102 Programming Fundamentals
- IT 121 Introduction to HTML and Cascading Style Sheets
- IT 201 Database Fundamentals
- IT 219 Object-Oriented Programming
- IT 220 Software Development Methods

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

Dept./No.	Course Title	Credits
<b>Core Requirements</b>		
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
IT 434	Secure Development Practices	5

**Legal Administrative Assistant  
Associate in Applied Arts Degree  
93-98 Credits**

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

**Contact:** Lea Ann Simpson, ext. 439 [lsimpson@greenriver.edu](mailto:lsimpson@greenriver.edu) Julie Slettvet, ext. 4687 [slettvet@greenriver.edu](mailto:slettvet@greenriver.edu)  
 Tonya McCabe, ext. 4783 [tmccabe@greenriver.edu](mailto:tmccabe@greenriver.edu) Shannon Sharpe, ext.4378 [sharpe@greenriver.edu](mailto:sharpe@greenriver.edu)

Dept./No.	Course Title	Credits
Lifetime Fitness/ Wellness Activity	Any course under the AA degree Lifetime Fitness/Wellness/Activity area	1+
Btac 100	Fundamentals of Computers	5
*Btac 102	Intermediate Keyboarding	5
Btac 103	Advanced Keyboarding	5
Btac 109	Legal Terminology	3
#Btac 110	Business Math Applications	5
Btac 112 or 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	Introduction to Excel	5
Btac 177	BTAC Work Experience 1	3
Btac 235	Legal Office Procedures	5
#Btac 250 or Bus 166	Office Relations and Procedures or Human Relations and Work Readiness	5
Btac 220	Technology in the Legal Office	5
Btac 266	Inside Microsoft Office	5
Bus& 201	Business Law and the Regulation of Business	5
#Cmst 100 or 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
Pols& 200	Introduction to Law	5

Reading Eligible for Read 104 (as determined by the appropriate assessment score) or completion of Read 094 0-5

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

Acct 110 or Acct& 201 or Btac 090	Practical Financial Accounting 1 or Principles of Accounting 1 or Office 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 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 163	Advanced Excel	5
Btac 175	Instructor Assistant	1-5
Btac 178-179	BTAC Work Experience 2-3	2-10
Btac 184	Internet and Basic Web Design	5
Btac 185	Introduction to Microsoft Access	5
Btac 214	Introduction to Information Security	5
Btac 250	Office Relations and Procedures	5
Btac 255	Advanced Word	5
CJ& 101	Introduction to Criminal Justice	5
Phil 114	Philosophical Issues in Law	5
Engl 105	Grammar and Usage	5
Psyc& 100	General Psychology	5
Soc& 101	Introduction to Sociology	5

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

#Satisfies related instruction requirements.

° Qualifies as AAA and AA-DTA activity credit

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

**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](mailto:ttagliente@greenriver.edu)

Dept./No.	Course Title	Credits
#Acomp 100T or Math 072 or	Computations for the Trades or Elementary Algebra or Eligible for Math 097, Intermediate Algebra	0-5
#*Bus 166 or *Cmst 100 or	Human Relations and Work Readiness or Fundamentals of Oral Communication or	

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*Cmst& 210 or	Interpersonal Communication or	
*Cmst& 220 or	Public Speaking or	
Cmst 238	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	English Composition or	
Engl 109	Writing for Trades and Prof/Tech Degrees	5
Indus 102.1	Welding Survey 1	3
Mfg 101 or	Introduction to Machining and Manufacturing or	
AAM 101	Principles of Precision Machining 1	13
Mfg 102	Conventional Milling and Turning	13
Mfg 103 or	Conventional and CNC Machining Level 1 or	
AAM 102	Principles of Precision Machining 2	13
Mfg 104	Conventional and CNC Machining Level 2	13
Mfg 105	Intermediate CNC Machining	13
Mfg 106 or	Special Machining Practices or	
Mfg 177	Manufacturing Work Experience	13
Mfg 115	Reading Engineering Drawings	2
Mfg 162 or	Applied Materials for Manufacturing or	
I E 189	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 100T 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

### 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:

**Contact:** Tim Broxholm, Ext. 4377      Jeff Perlot, Ext. 4865  
tbroxholm@greenriver.edu      jperlot@greenriver.edu

Dept. No.	Course Title	Credits
<b>Core Requirements (55 credits)</b>		
Bus 310	Market Research and Analytics	5
Bus 335	Integrated Marketing Communications	5
Bus 340	Project Management	5
Bus 344	Entrepreneurial Finance	5
Bus 350	Product Development and Innovation	5
Bus 360	Sales and Negotiations	5
Bus 385	Operations Management for Competitive 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 or	Research Writing: Science/Engineering/Business	5
Engl 335	Advanced Technical Writing	5

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

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

<b>Humanities</b> (10 credits)		
Cmst& 210 <b>or</b>	Interpersonal Communications <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communications	5
Phil 412	Professional Ethics	5
<b>Social Sciences</b> (10 credits)		
Bus& 101 <b>or</b>	Introduction to Business <b>or</b>	
Bus 181	Introduction to International Business	5
Five credits from the list of Social Science courses approved for the AA-DTA degree.		
		5
<b>Natural Sciences</b> (10 credits)		
Math 256	Statistics for Business and Social Science	5
Five credits lab science from Natural Science List A for the AA-DTA degree		
		5
<b>Additional General Education</b> (15 credits)		
Acct& 201 <b>or</b>	Principles of Accounting <b>or</b>	
Acct 110	Practical Financial Accounting	5
Bus 365 <b>and</b>	Consumer Behavior <b>and</b>	5
Bus 400	Personal and Professional Branding	5

Additional credits from an Associate's Degree or equivalent credits in business-related field 65

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

**Maintenance Mechatronics  
Associate in Applied Science Degree  
95-102 Credits**

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

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

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

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

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

**Contact:** Pat Pritchard, ext. 4261  
ppritchard@greenriver.edu

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
#Acomp 100T <b>or</b>	Computations for the Trades <b>or</b>	
Math 072	Elementary Algebra <b>or</b>	
	Eligible for Math 097, Elementary Algebra	0-5
Btac 100	Fundamentals of Computers	5
Btac 111	Introduction to Computer Literacy	5
*#Bus 166 <b>or</b>	Human Relations and Work Readiness <b>or</b>	
Cmst 100 <b>or</b>	Fundamentals of Written Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst 238	Intercultural Communication	5
*#Cmst 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5

#Engl& 101 <b>or</b>	English Composition <b>or</b>	
Engl 109	Writing for Trades and Prof/Tech Degrees	5
Indus 102.1	Welding Survey 1	3
Mfg 101 <b>or</b>	Introduction to Machining and Manufacturing <b>or</b>	
AAM 101	Principles of Precision Machining 1	13
Mfg 115	Reading Engineering Drawings	2
Mfg 162 <b>or</b>	Applied Materials for Manufacturing <b>or</b>	
I E 189	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.*

**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  
twaagan@greenriver.edu

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
AAM 105	Quality Assurance 1	7
AAM 106	Quality Assurance 2	7
AAM 107 <b>and</b>	Inspection 1 <b>and</b>	(7)
D T 101.2 <b>or</b>	Machine Drafting 1 <b>or</b>	(3)
DT 101 <b>and</b>	Technical Drafting <b>and</b>	(7)
AAM107.2	Inspection Measuring Basics	(3)
AAM 108 <b>or</b>	Inspection 2 <b>or</b>	(7)
AAM 108.2 <b>and</b>	Computerized Measuring for Inspection <b>and</b>	(3)
D T 115	Geometric Dimensioning and Tolerancing	(4)
#Cmst 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst &220	Public Speaking	5
D T 100 <b>or</b>	Introduction to CADD/CAM <b>or</b>	(7)
D T 110 <b>and</b>	Introduction to AutoCAD <b>and</b>	(4)
D T 112	Introduction to KeyCreator	(4)
D T 102 <b>or</b>	Descriptive Geometry <b>or</b>	(7)
D T 102.1 <b>and</b>	Descriptive Geometry <b>and</b>	(4)
D T 102.2	Machine Drafting 2	(3)
D T 105 <b>or</b>	Design Drafting Careers <b>or</b>	
Tech 100	Careers for the New Millennium	2
D T 113 <b>or</b>	Introduction to SolidWorks <b>or</b>	
D T 236	Introduction to Inventor	4
D T 131	Mechanical Drafting (CADD)	7
D T 135	3-D CADD/CAM	7
D T 151	Technical Illustration	7

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#D T 231	Mechanical Design (CADD)	7
D T 232	Drafting and Design Projects (CADD)	7
D T 237	Advanced 3-D CADD/CAM	4
#Engl 109 or Engl 128	Writing for Trades and Prof/Tech Degrees or Research Writing: Science/Engineering/Business	5
I E 189 or I E 204	Basic Metallurgy or Statics and Strengths	4-5

**#Five credits from the following Math courses:** 5

Math 116T	Technical Mathematics 2	(5)
Math 117T	Technical Mathematics 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 from the following to total 120 credits.**

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

#Satisfies related instruction requirements.

### 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.

**Contact:** Shannon Sharpe, ext. 4378    Lea Ann Simpson, ext. 4393  
ssharp@greenriver.edu    lsimpson@greenriver.edu

Tonya McCabe, ext. 4783    Julie Slettvet, ext. 4687  
tmccabe@greenriver.edu    jslettvet@greenriver.edu

Dept/No.	Course Title	Credits
AP 100	Survey of Anatomy-Physiology	5
Bus 166	Human Relations and Work Readiness	5
Btac 100	Fundamentals of Computers	5
*Btac 102	Intermediate Keyboarding	5
#Btac 110	Business Math Applications	5
Btac 112 or Btac 255	Beginning Word or Advanced Word	5
Btac 125	Medical Terminology for Office Administration	5
Btac 126	Pharmaceutical Basics	2
Btac 127	Overview of Human Diseases for Non-Clinicians	3
#Btac 130	Business Correspondence	5
Btac 142	Health Information and Delivery Systems	5
Btac 143	Medical/Legal Aspects of Health Information	5

Btac 145	Introduction to ICD Coding	5
Btac 146	Introduction to CPT Coding	5
Btac 162 or Btac 163	Introduction to Excel or Advanced Excel	5
Btac 245	Medical Office Procedures	5
Cmst 100 or Cmst& 210 or Cmst& 220	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5
Reading	Eligible for Read 104 (as determined by the appropriate assessment test score) or completion of Read 094	0-5

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

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

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

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

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

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

Acct 110	Practical Financial Accounting	5
Bus& 101	Introduction to Business	5
Btac 101	Beginning Keyboarding	5
Btac 107 and/or Btac 108	Typing Speed and Accuracy 1 and/or Typing Speed and Accuracy	2
*Btac 111	Introduction to Computer Literacy	5
Btac 112 or Btac 255	Beginning Word or Advanced Word	5 5
*Btac 115	Professional Image Building	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 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 Front Office  
Certificate  
54-59 Credits**

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

**Contact:** Shannon Sharpe, ext. 4378    Lea Ann Simpson, ext. 4393  
ssharp@greenriver.edu    lsimpson@greenriver.edu

Tonya McCabe, ext. 4783    Julie Slettvet, ext. 4687  
tmccabe@greenriver.edu    jslettvet@greenriver.edu

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

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

Acct 110	Practical Financial Accounting	5
Btac 101	Beginning Keyboarding	5
Btac 107 <b>and/or</b> Btac 108	Typing Speed and Accuracy 1 <b>and/or</b> Typing Speed and Accuracy	2
*Btac 111	Introduction to Computer Literacy	5
Btac 112 <b>or</b> Btac 255	Beginning Word <b>or</b> Advanced Word	5
*Btac 115	Professional Image Building	5
Btac 140	Records Management	5
Btac 150	Introduction to Windows	5
Btac 162 <b>or</b> Btac 163	Introduction to Excel <b>or</b> Advanced Excel	5
Btac 175	Instructor Assistant	1-5
Btac 185	Introduction to Microsoft Access	5
Btac 214	Introduction to Information Security	5
Btac 250	Office Relations and Procedures	5
Bus& 101	Introduction to Business	5

#Satisfies related instruction requirements.

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

° Qualifies as AA-DTA activity credit.

**Natural Resources  
Forestry  
Associate in Applied Science Degree  
112 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.

**Contact:** Monica Paulson Priebe    Rob Sjogren, ext. 4582  
mpriebe@greenriver.edu    rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
<b>FIRST YEAR</b>		
<b>Summer Quarter</b>		
#Cmst& 220	Public Speaking	5
#Engl& 101	English Composition	5
<b>Fall Quarter</b>		
Engl 128	Research Writing: Science/Engineering/Business	5
Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
<b>Winter Quarter</b>		
Natrs 114	Chainsaw Operation and Maintenance	1
Natrs 161	Wildlife Habitat Management	4
#Natrs 180	Natural Resources Measurement	5
Natrs 270	Stream and Wetland Ecology	5
<b>Spring Quarter</b>		
Natrs 182	Aerial Photo GIS, and Forest Navigation	8
Natrs 184	Shrub and Wildflower Identification	3
P E 113	Group Dynamics Activities (taken concurrently with Natrs 182)	1
<b>Summer Quarter: Work Experience</b>		
<b>SECOND YEAR</b>		
<b>Fall Quarter</b>		
GIS 192	GIS for Natural Resources	5
Natrs 205	Wildland Recreation	4
Natrs 292	Resource Sampling and Appraisal of Forest Conditions	8
<b>Winter Quarter</b>		
Natrs 210	Introduction to Soils	5
Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis and Forest Protection	4

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### Spring Quarter

#Nats 286	Natural Resources Business Principles	5
Nats 186	Bio-Invasions: Invasive Species Management and Control	4

### Capstone

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

Avia 123	Aviation Weather	(5)
Engr 106	Introduction to Engineering Problems	(3)
GIS	Any GIS class	(2-5)
HI Ed 190	Standard First Aid/CPR	(3)
Nats 130	Wildland Firefighter Training	(4)
Nats 134	Intermediate Wildland Fire Behavior	(3)
Nats 162	Biology and Conservation of Birds	(3)
Nats 198-199	Independent Study-Natural Resources 1-2	(1-5)
Nats 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 – 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.

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

Dept./No.	Course Title	Credits
<b>FIRST YEAR</b>		
<b>Summer Quarter</b>		
#Cmst& 220	Public Speaking	5
#Engl& 101	English Composition	5
<b>Fall Quarter</b>		
Engl 128	Research Writing: Science/Engineering/Business	5
Nats 100	Introduction to Natural Resources	5
Nats 172	Computer Applications Overview	4
Nats 183	Tree and Shrub Identification	5
<b>Winter Quarter</b>		
Nats 114	Chainsaw Operation and Maintenance	1
Nats 161	Wildlife Habitat Management	4
#Nats 180	Natural Resources Measurement	5
Nats 270	Stream and Wetlands Ecology	5
<b>Spring Quarter</b>		
Nats 182	Aerial Photo, GIS, and Forest Navigation	8
Nats 184	Shrub and Wildflower Identification	5
P E 113	Group Dynamics Activity (taken concurrently with Nats 182)	1

### SECOND YEAR

#### Fall Quarter

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

#### Winter Quarter

Nats 284	Road and Trail Engineering	6
Nats 290	Internship Seminar	1
Nats 293	Silvicultural Analysis and Forest Protection	4

#### Spring Quarter

Geol& 101 and Soc& 101 or Nats 123	Introduction to Physical Geology and Introduction to Sociology or Backcountry Watershed Assessment	(5) (5) (12) 10-12
#Nats 286	Natural Resources Business Principles	5

#### Capstone

*Nats 294.1, 294.2, 294.3 and 294.4	Natural Resources Internship 1-4	14
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To enhance the student's preparation for future employment, 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)
Nats 162	Biology and Conservation of Birds	(3)
Nats 198-199	Independent Study-Natural Resources 1-2	(1-5)
Nats 271	Stream and Wetland Restoration	(5)
Nats 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 Nats 294.1, 294.2, 294.3, 294.4 in summer quarter if needed.

#Satisfies related instruction requirements.

**Note:** Substitutions of required courses may be made with the department's prior approval when it is agreed that the student's suitability for employment will be enhanced. Examples include courses involving small engine repair, basic carpentry, plumbing or wiring.

### Natural Resources - Water Quality Associate in Applied Science Degree 128-130 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!

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

Dept./No.	Course Title	Credits
<b>FIRST YEAR</b>		
<b>Summer Quarter</b>		
#Cmst& 220	Public Speaking	5
#Engl& 101	English Composition	5

**Fall Quarter**

Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
Engl 128	Research Writing: Science/Engineering/Business	5

**Winter Quarter**

Natrs 114	Chainsaw Operation and Maintenance	1
Natrs 161	Wildlife Habitat Management	4
#Natrs 180	Natural Resources Measurement	5
Natrs 270	Stream and Wetland Ecology	5

**Spring Quarter**

Natrs 182	Aerial Photo, GIS, and Forest Navigation	8
Natrs 184	Shrub and Wildflower Identification	3
P E 113	Group Dynamics Activities (taken concurrently with NATRS 182)	1

**SECOND YEAR**

**Fall Quarter**

GIS 192	GIS for Natural Resources	5
Natrs 205	Wildland Recreation	4
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	6
Natrs 290	Internship Seminar	7
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)	10-12
Natrs 271	Stream and Wetland Restoration	5	
#Natrs 286	Natural Resources Business Principles	5	

**Capstone**

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

Any Course	Biology, Chemistry, and Geology	(5 ea)
Any Courses	GIS (3-8)	
Avia 123	Aviation Weather	(5)
Geog 120	Introduction to Physical Geography	(5)
HI Ed 190	Standard First Aid/CPR	(3)
Natrs 162	Biology and Conservation of Birds	(3)
Natrs 210	Introduction to Soils	(5)
Natrs 198, 199	Independent Study-Natural Resources 1-2	(1-5)
Natrs 297-299	Independent Study-Natural Resources 4-6	(1-5)
St Sk 110	College Success Strategies	(5)

#Satisfies related instruction requirements.

\*Complete Natrs 294.1, 294.2, 294.3, 294.4 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.

**Natural Resources - Wildland Fire**  
**Associate in Applied Science Degree**  
**110 Credits**

This degree program prepares graduates to perform fire prevention and educational activities. They serve as crew members or leaders of aerial, engine, or ground wildland fire crews.

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

**Contact:** Monica Paulson Priebe      Rob Sjogren, ext. 4582  
mpriebe@greenriver.edu      rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
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**FIRST YEAR**

**Summer Quarter**

#Engl& 101	English Composition	5
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**Fall Quarter**

Engl 128	Research Writing: Science/Engineering/Business	5
Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5

**Winter Quarter**

Natrs 114	Chainsaw Operation and Maintenance	1
Natrs 161	Wildlife Habitat Management	4
#Natrs 180	Natural Resources Measurement	5
Natrs 270	Stream and Wetland Ecology	5

**Spring Quarter**

Natrs 130	Wildland Firefighter Training I-100 & S-130/190	4
Natrs 134	Intermediate Wildland Fire Behavior	3
Natrs 182	Aerial Photo GIS and Forest Navigation	8
P E 113	Group Dynamic Activities (taken concurrently with Natrs 182)	1

**Summer Quarter: Wildfire experience required**

**SECOND YEAR**

**Fall Quarter**

#Cmst& 220	Public Speaking	5
GIS 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	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis and Forest Protection	4

**Spring Quarter**

Natrs 184	Shrub and Wildflower Identification	3
#Natrs 286	Natural Resources Business Principles	5

**Capstone**

*Natrs 294.1, 294.2, 294.3 and 294.4	Natural Resources Internship	14
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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)

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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 294.1, 294.2, 294.3, 294.4 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.

### Practical Nursing Associate in Applied Science Degree 95 Credits

The degree program prepares a student to provide safe and efficient nursing care. Health facilities such as hospitals, nursing homes, clinics and public health nursing services employ practical nurses under the supervision of a registered nurse or physician.

A multimedia system of individualized instruction, offering stated objectives with a wide range of learning experiences to accomplish each objective is provided.

The Practical Nursing program is a 95 credit program in which students must demonstrate academic proficiency by completing basic curriculum requirements prior to entry into the core sequence of nursing classes. A high school diploma or GED is required, and a physical exam is required after entrance into the core program. A minimum grade of **2.5** or higher is required in each nursing and supporting course. Evidence of academic proficiency is established by completion of each of the following prerequisite requirements with a 2.5 grade or higher.

The following courses are required prior to applying into the Practical Nursing program:

- AP 103 and 104, or Biol& 241 and Biol& 242 (10 credits);
- Completion of Math& 107 or higher (not Technical Math)
- H Sci 150, Human Life Span, Growth, & Development (5 credits) or Psyc& 200, Lifespan Psychology (5 credits)
- Nutr& 101, Nutrition (5 credits)
- Communication Studies (5 credits). Choose from Cmst& 210, &220, or &230
- English Composition (5 credits). Choose from Engl& 101, 126, 127, or 128.

*The student is expected to provide his/her own transportation to off-site clinical facilities that at times can be 50 or more miles away. In addition to paying for tuition and books, the student is required to purchase a uniform, pin, white shoes, watch, bandage, scissors, and liability insurance. For additional information about a required nursing orientation and the application procedure, contact the Health Science curriculum advisor in Career and Advising Center, at ext. 2639.*

Upon successful completion of the required credits, the student will earn an Associate in Applied Science degree in Practical Nursing. The graduate will be eligible to take the licensing examination and upon passing, practice as a Licensed Practical Nurse. Application for LPN licensure asks information regarding legal convictions, and drug/alcohol and addiction conditions that may inhibit nursing practice. For additional questions on this issue, contact the Washington State Nursing Care Quality Assurance Commission. The program is fully accredited by the Washington State Nursing Care Quality Assurance Commission and the Northwest Association of Schools and Colleges.

**Contact:** Susan Baker, ext. 4589      Lauren Cline, ext. 4217  
sbaker@greenriver.edu      lcline@greenriver.edu

Information Session Sign up: [greenriver.edu/info-sessions](http://greenriver.edu/info-sessions)

Dept./No.	Course Title	Credits
<b>Fall Quarter</b>		
Nurse 101	Introduction to Computers in Nursing	1
Nurse 104	Nursing 1 Fundamentals	6
Nurse 105	Community Lab 1	4
#Nurse 116	Nursing Issues and Delivery Systems	3

<b>Winter Quarter</b>		
Nurse 106	Nursing 2	8
Nurse 107	Nursing 2 Community Lab 2	8

<b>Spring Quarter</b>		
Nurse 109	Nursing 3 Community Lab 3	8
Nurse 110	Nursing 3	8
Nurse 114	Principles and Practice of Intravenous Therapy	2

<b>Summer Quarter</b>		
#Nurse 112	Nursing 4	6
Nurse 113	Nursing 4 Community Lab 4	6

#### Curriculum Requirements:

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

AP 103 and 104 or Biol& 241 and 242	Essentials of Human Anatomy-Physiology 1 and 2 or Human Anatomy-Physiology 1 and 2	10
#Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communication or Public Speaking or Small Group Communication	5
#Engl& 101 or Engl 126 or Engl 127 or Engl 128	English Composition or Writing: Humanities or Writing: Social Sciences or Research Writing: Science/Engineering/Business	5
#Math& 107 or higher	Math in Society or higher (Not Technical Math)	5
Nutr& 101	Nutrition	5
Psyc& 200	Lifespan Psychology	5

#Satisfies related instruction requirements.

### Nurse Assistant Certificate Program Certificate 12 Credits

This certificate program prepares graduates to develop concepts and knowledge necessary to provide entry level nurse assistant care.

Students in this certificate program must possess the following prior to enrollment in the program:

- 18 years of age
- DSHS Background Check
- Washington State Patrol clearance check
- Nelson Denny 8th Grade Reading level (or enroll in I-BEST option if available)
- Hepatitis B series plus titer
- Current Tuberculosis Test (TB): 2 step method, 2 different injections, 2 – 3 weeks apart
- MMR series or immunity by titer
- Varicella series or immunity by titer
- Flu vaccination for current season
- Tdap within the last ten years



- Uniform, gait belt, dictionary, watch with second hand, white shoes, blood pressure cuff, and stethoscope

(For the complete details, please refer to the NA-C Application.)

Students must earn a grade of 2.0 or higher in each class in the program to earn the certificate.

**Contact:** Career and Advising Center  
(253) 833-9111, ext. 2641  
beadvised@greenriver.edu

Information Session Sign Up: [greenriver.edu/info-sessions](http://greenriver.edu/info-sessions)

Dept./No.	Course Title	Credits
Nrs A 110	Nurse Assistant Theory	6
Nrs A 111	Nurse Assistant Skill	4
Nurse 127	Aids/CPR Safety/Inspection Control	2

### **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.

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](http://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. Anatomy and Physiology 103 or Biology &241 and Anatomy and Physiology 104 or Biology &242
- b. English &101
- c. Health Science 150 or Psychology &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.

**Contact:** Lisa Finnsson, ext.4341      Career and Advising Center  
lfinnsson@greenriver.edu      (253) 833-9111, ext. 2641  
beadvised@greenriver.edu

Information Session Sign up: [greenriver.edu/info-sessions](http://greenriver.edu/info-sessions)

Dept./No.	Course Title	Credits
<b>First Quarter</b>		
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
<b>Second Quarter</b>		
H Sci 104	Fundamentals of Gerontology	3
O T 114	Physical Disabilities 1	5
O T 112	Developmental Disabilities	5
<b>Third Quarter</b>		
O T 105	Clinical Seminar 1	2
O T 116	Physical Disabilities 2	5
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

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### Fourth Quarter

*O T 178	Application of Occupational Therapy	1
	Co-op Experience 2	
*O T 200	Therapeutic Activities 1	3
#O T 202	Ethics, Society and Professional Practice	3
O T 223	Therapeutic Practice in OT	5
O T 225	Clinical Seminar 2	1

### 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	Essentials of Human Anatomy Physiology 1 and 2 or	
Bio& 241 and		
Bio& 242	Human Anatomy Physiology 1 and 2	10
#Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
#Engl& 101	English Composition	5
H Sci 150 or	Human Life Span Growth and Development or	
Psyc& 200	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.

## Phlebotomy Technician Certificate of Proficiency 10-12 Credits

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

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

### Admission Requirements

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

**Contact:** Career and Advising Center  
(253) 833-9111, ext. 2641  
[beadvised@greenriver.edu](mailto:beadvised@greenriver.edu)

Dept./No.	Course Title	Credits
Phleb 101	Fundamentals of Phlebotomy	5
Phleb 102	Phlebotomy Laboratory Skills	2
Phleb 103	Phlebotomy Technician Practicum	3
Nurse 127	Aids/CPR Safety/Inspection Control or 7 hours of HIV, CPR, HIPPA and privacy training*	0-2

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

**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](http://www.instruction.greenriver.edu/PTA) for the most current information about application requirements or register for an information session at [greenriver.edu/infosessions](http://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. Engl 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 100T 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 either 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 Psc& 200 may require successful completion of a General Psychology (Psc& 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: [greenriver.edu/info-sessions](http://greenriver.edu/info-sessions)

Dept./No.	Course Title	Credits
<b>FIRST YEAR</b>		
<b>Fall Quarter</b>		
H Sci 102	Applied Anatomy	5
PTA 101	Introduction to Physical Therapy	3
PTA 105	Patient Care Skills	3
<b>Winter Quarter</b>		
#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
<b>Spring Quarter</b>		
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
<b>SECOND YEAR</b>		
<b>Fall Quarter</b>		
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
<b>Winter Quarter</b>		
PTA 211	Advanced Rehabilitation Procedures	6
PTA 213	Orthopedic Therapy	5
#PTA 252	Clinical Supervision 2	1
PTA 278	Clinical Affiliation 2	1
<b>Spring Quarter</b>		
#PTA 253	Clinical Supervision 3	1
PTA 279	Clinical Affiliation 3	7
PTA 280	Clinical Affiliation 4	7
<b>Required Supporting Course/Prerequisites:</b>		
#Acomp 100T 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 <b>OR</b> Biol& 241 and Biol& 242 #Cmst& 210 or Cmst& 220 or	Essentials of Human Anatomy-Physiology 1 and Essentials of Human Anatomy-Physiology 2  Human Anatomy-Physiology 1 and Human Anatomy-Physiology 2 Interpersonal Communication or Public Speaking or	10

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Cmst& 230 <b>or</b>	Small Group Communication <b>or</b>	
Cmst 238	Intercultural Communication	5
#Engl& 101 <b>or</b>	English Composition <b>or</b>	
Engl 126 <b>or</b>	Writing: Humanities <b>or</b>	
Engl 127 <b>or</b>	Writing: Social Sciences <b>or</b>	
Engl 128	Research Writing: Science/Engineering/Business	5
H Sci 150 <b>or</b>	Human Life Span, Growth and Development <b>or</b>	
Psyc& 200	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.

### Wastewater Technology Associate in Applied Science Degree 90 Credits

This degree program prepares graduates for positions in municipal wastewater collection systems and treatment facilities. Along with appropriate operating experience, this degree provides a foundation for positions with responsibilities beyond the entry level. The requirements build on those for the Municipal Wastewater Treatment Technology Certificate of Proficiency, which should generally be completed first.

Dept./No.	Course Title	Credits
#Bus 166	Human Relations and Work Readiness	5
Biol& 100 <b>or</b>	Survey of Biology <b>or</b>	
Env S 204	Natural Science and the Environment	5
Btac100 <b>or</b>	Fundamentals of Computers <b>or</b>	
Btac112 <b>or</b>	Beginning Word <b>or</b>	
Btac118 <b>or</b>	Basics for Online Education <b>or</b>	
Btac150 <b>or</b>	Introduction to Windows <b>or</b>	
Btac184	Internet and Basic Web Design	5
Chem& 161	General Chemistry with Lab I	6
Chem& 162	General Chemistry with Lab II	6
#Cmst 100 <b>or</b>	Fund of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst 230	Small Group Communication	5
#Engl& 101	English Composition	5
Engl 128	Research Writing: Science, Engineering and Business	5
#Math& 141 <b>or</b>	Precalculus I <b>or</b>	
Math& 107	Math in Society	5
Wtech 181	Water Hydraulics	3
Wtech 182	Pumps and Pumping Systems	3
Wtech 183	Utility Worker Safety	3
Wtech 184	Disinfection and Chemical Feed Systems	3
Wtech 187	Drawings and Manuals	3
Wtech 188	Water and Wastewater Electrical	3
Wtech 191	Pre-Employment Seminar	3
WWT 177	Water Cooperative Education	11
WWT 180	Water Collection	3
WWT 185	Municipal Wastewater Treatment 1	3
WWT 186	Municipal Wastewater Treatment 2	3
WWT 188	Wastewater Laboratory	2

#Satisfies related instruction requirement.

### Water Distribution Technology Certificate of Proficiency 31-41 Credits

This certificate program prepares graduates for entry-level positions operating and maintaining public drinking water distribution systems. The program is designed for a fall quarter start, depending upon student composition, computation and computing skills; please contact an advisor for skill assessment information.

Dept./No.	Course Title	Credits
Btac100 <b>or</b>	Fundamentals of Computers <b>or</b>	
Btac112 <b>or</b>	Beginning Word <b>or</b>	
Btac118 <b>or</b>	Basics for Online Education <b>or</b>	
Btac150 <b>or</b>	Introduction to Windows <b>or</b>	
Btac184	Internet and Basic Web Design	5
*Engl 081	Fundamentals of Written Communication	0-5
**Math 072	Elementary Algebra	0-5
Wtech 181	Water Hydraulics	3
Wtech 182	Pumps and Pumping Systems	3
Wtech 183	Utility Worker Safety	3
Wtech 184	Disinfection and Chemical Feed Systems	3
Wtech 187	Drawings and Manuals	3
Wtech 188	Water and Wastewater Electrical	3
WST 180	Water Distribution	3
WST 183	Water Sources	1
WST 184	Water Regulations	2
WST 188	Water Laboratory	2

\* Not required if eligible for Engl 099 or higher.

\*\*Not required if eligible for Math 097 or higher.

### Water Supply Technology Associate in Applied Science Degree 90 Credits

This degree program prepares graduates for positions in municipal drinking water distribution and treatment facilities. Along with appropriate operating experience, this degree provides a foundation for positions with responsibilities beyond the entry level. The requirements build on those for the Water Distribution Technology Certificate of Proficiency, which should generally be completed first.

Dept./No.	Course Title	Credits
#Bus 166	Human Relations and Work Readiness	5
Biol& 100 <b>or</b>	Survey of Biology <b>or</b>	
Geol& 101	Introduction to Physical Geology	5
Btac 100 <b>or</b>	Fundamentals of Computers <b>or</b>	
Btac 112 <b>or</b>	Beginning Word <b>or</b>	
Btac 118 <b>or</b>	Basics for Online Education <b>or</b>	
Btac 150 <b>or</b>	Intro to Windows <b>or</b>	
Btac 184	Internet and Basic Web Design	5
Chem& 161	General Chemistry with Lab I	6
Chem& 162	General Chemistry with Lab II	6
#Cmst 100 <b>or</b>	Fundamentals of Oral Communication <b>or</b>	
Cmst& 210 <b>or</b>	Interpersonal Communication <b>or</b>	
Cmst& 220 <b>or</b>	Public Speaking <b>or</b>	
Cmst& 230	Small Group Communication	5
#Engl& 101	English Composition	5
Engl 128	Research Writing: Science, Engineering and Business	5
#Math& 141 <b>or</b>	Precalculus I <b>or</b>	
Math& 107	Math in Society	5
Wtech 181	Water Hydraulics	3
Wtech 182	Pumps and Pumping Systems	3
Wtech 183	Utility Worker Safety	3
Wtech 184	Disinfection and Chemical Feed Systems	3
Wtech 187	Drawings and Manuals	3

Wtech 188	Water and Wastewater Electrical	3
Wtech 191	Pre-Employment Seminar	3
Wst 177	Water Cooperative Education	8
Wst 180	Water Distribution	3
Wst 183	Water Sources	1
Wst 184	Water Regulations	2
Wst 185	Water Treatment 1	3
Wst 186	Water Treatment 2	3
Wst 188	Water Laboratory	2

*#Satisfies related instruction requirement.*

**Municipal Wastewater Treatment Technology**  
**Certificate of Proficiency**  
**31-41 Credits**

This certificate program prepares graduates for entry-level positions in municipal wastewater treatment facilities. The program is designed for a fall quarter start, depending upon student composition, computation and computing skills; please contact an advisor for skill assessment information.

<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Btac100 or	Fundamentals of Computers or	
Btac112 or	Beginning Word or	
Btac118 or	Basics for Online Education or	
Btac150 or	Introduction to Windows or	
Btac184	Internet and Basic Web Design	5
*Engl 081	Fundamentals of Written Communication	0-5
**Math 072	Elementary Algebra	0-5
Wtech 181	Water Hydraulics	3
Wtech 182	Pumps and Pumping Systems	3
Wtech 183	Utility Worker Safety	3
Wtech 184	Disinfection and Chemical Feed Systems	3
Wtech 187	Drawings and Manuals	3
Wtech 188	Water and Wastewater Electrical	3
WWT 185	Municipal Water Treatment 1	3
WWT 186	Municipal Water Treatment 2	3
WWT 188	Wastewater Laboratory	2

*\*Not required if eligible for Engl 099 or above.*

*\*\*Not required if eligible for Math 097 or higher.*

**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.

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<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
<b>First Year</b>		
#Acomp 100T or	Computation for the Trades or	
	Eligible for Math 070 or	
	Completion of Math 062	0-5
#Cmst 100	Fundamentals of Oral Communication	5

#Engl 109	Writing for Trades and Prof/Tech 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.

**Basic Arc and Flame**  
**Certificate of Proficiency**  
**26 Credits**

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<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Weld 141	Basic Arc and Flame	13
Weld 142	Intermediate Welding	13

**Intermediate Arc and Flame**  
**Certificate of Proficiency**  
**26 Credits**

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<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Weld 142	Intermediate Welding	13
Weld 143	Advanced Arc Welding	13

**Advanced Arc Welding**  
 Certificate of Proficiency  
 26 Credits

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<b>Dept./No.</b>	<b>Course Title</b>	<b>Credits</b>
Weld 194	Special Welding Projects 1	13
Weld 195	Special Welding Projects 2	13

**OTHER LEARNING OPTIONS**

**ASSOCIATE DEVELOPMENT DEGREE**

The Associate Development degree allows students to explore different subject areas as they prepare for a career. The flexibility of the degree allows students to customize course requirements to fit their professional goals while simultaneously ensuring competence in core learning outcome areas. The degree is not **Associate Development Degree Requirements:**

1. Complete a minimum of 90 credits in the courses offered at GRC. Basic Education (BASIC), English for Speakers of Other Languages (ESOL), and courses designated as High School Diploma only do not count toward the required 90 credits.
2. Earn a minimum GPA of 2.0.
3. Complete a minimum of 24 credits, including the last quarter "in residence," at Green River. Online courses are recognized as part of the 24 credits.
4. Remember that no more than 25 percent of the credits may be earned on a pass/no-credit basis.
5. Consider that the credits identified in each of the following options are counted as part of the 90 credits required for the degree. Students must complete one of the options:

**Option 1:** Complete a Green River certificate program of 45 credits or more.

**Option 2:** Complete the following:

1. A Green River certificate program of 25 credits or more with one course satisfying the written or oral communication requirement of any degree or program at Green River.
2. One course satisfying the quantitative and symbolic reasoning or computation requirement of any degree or program at Green River.
3. One course satisfying the human relations requirement of any degree or program at Green River.

**Option 3:** Meet with a faculty advisor and custom design a program of study. The program of study must include the following:

1. Twenty-five credits or more in courses which specifically prepare a student for employment in an identified specialty area. Courses may be from academic, as well as professional/technical areas.
2. One course satisfying the quantitative and symbolic reasoning or computation requirement of any degree or program at Green River.
3. One course satisfying the written or oral communication requirement of any degree or program at Green River.
4. One course satisfying the human relations requirement of any degree or program at Green River learning outcomes aligned with identified specialty area and selected courses.

Understand that the program of study must be signed by the advisor and the student. The plan becomes a permanent part of the student's record.

## HIGH SCHOOL EQUIVALENCY TEST CERTIFICATE

Green River offers high school equivalency test preparation classes to assist in preparing for the tests. Classes are available for students who are 16 years of age or older. Students under the age of 19 must have the appropriate signed release from their high school to enroll in high school equivalency test preparation classes and to take the high school equivalency test. Additional information is available online at the Green River website, in the course description portion of this catalog, and in the quarterly class schedule.

The high school equivalency test credential is recognized by most employers and colleges. Ninety five percent of U.S. colleges and universities recognize the high school equivalency test credential. More than half of high school equivalency credential test-takers intend to go on to college or postsecondary training. Green River is a test site for the high school equivalency test. Please contact the Assessment and Testing Center at ext. 2650 to ask about high school equivalency testing days, times and fees.

## HIGH SCHOOL COMPLETION (HSC)

Green River College's High School Completion Program is an alternative way to earn a high school diploma. Although originally designed for adult students 19 years and older, students 16-18 may participate. Successful students meet Washington State and Green River College requirements for graduation and are issued an official State of Washington high school diploma. Students must complete a minimum of one credit at Green River in order to earn a high school diploma from Green River.

Washington State Graduation requirements differ depending on the student's age and academic history. As a result, **every student's situation is unique. This makes it essential that all students meet with an advisor/educational planner/case manager to review which classes are necessary to complete their diploma.**

## Green River High School Completion Pathways:

Green River College offers a comprehensive array of programs for earning a high school diploma. Students may qualify for one or more pathways for earning a high school diploma. These options include:

- Traditional High School Completion (HSC) Option - Students 16 and over may earn a diploma by earning credits for a high school diploma through the high school completion program. Students may be eligible for reduced tuition.
- Youth Re-engagement Program Option - Domestic students age 16 to 21, may earn a diploma at Green River through a partnership with the Kent School District, iGrad Program.
- **International students - Students studying here on F-1 Visas earn their high school diploma** working with advising in the International Programs Department.
- HS21+ Option - This is a competency-based high school diploma program for students who will be 21 or older when they complete the program. It is designed for adults who have gained knowledge, skills, and abilities from basic skills courses, life, and work experience.
- Associate Degree Option - students age 21 or older, upon earning their AA degree will be granted a HS diploma upon request.

Students will need to pay careful attention to the requirements for their particular diploma program and consult their advisor to ensure they are taking the correct classes to complete their degree.

In order for Green River College to Issue a diploma all OSPI requirements must be met!

## Green River High School Diploma Requirements:

1. **Completing a minimum number of credits** in core content areas (See chart on the following page to see which Green River classes meet the high school course requirements).
2. **Complete a Culminating Project** (Green River has integrated this into several courses).
3. **Complete a High School and Beyond plan**
4. Pass state tests or approved alternatives to those tests. These tests include the HSPE (High School Proficiency Exam) and/or the EOC (End of Course Exam). The next section details how the test requirements may be met.

## Green River High School Diploma Testing Requirements

In addition to completing required courses, students must pass exit exams, or state approved alternatives, in English Language Arts (ELA) and Math. Starting with the graduating class of 2015, students will also be required to take a Biology EOC. If a student previously passed the WASL or the HSPE, they do not need to take another exit exam.

Green River is not a HSPE or an EOC test site but students can connect with their local school district for instructions on taking the test at a high school. Washington state resident students must take the HSPE once after 10th grade before accessing a Certificate of Academic/Individual Achievement (CAA) Option. Students from private schools within the state do not need to take the HSPE first before accessing CAA Option alternative tests.

**High School Proficiency Exams (HSPEs):** HSPEs are comprehensive exams that measure the basic proficiency of high school students in reading and writing, and serve as the state's exit exams in those subjects.

**End-of-Course Exams (EOC's):** measure the knowledge of students in algebra 1/integrated math 1, geometry/integrated math 2 and biology. These exams are the state's exit exams for math and science.

**English Language Arts Exit Exams and Math EOC Exit Exams:** Based on the Common Core State Standards, the state will administer new English language Arts (ELA) exit exams and math EOC exit exams to align with the new standards beginning in the 2014-15 school year.

Transfer students from out of state or out of country (who transfer in during their junior or senior year) may use their previous state's high school exit exam, or the exam used to meet federal "No Child Left Behind" testing requirements instead of the WASL. In addition, out of state/country transfer students may also access the CAA Option tests alternatives. Students taking these exams need to will need to speak with an advisor to complete a state verification form.

## Approved CAA Options test alternatives currently accepted by Green River ~ AP and SAT/ACT

These options allow students to meet state-determined minimum test area scores to substitute for the HSPE. CAA Option category minimum requirements are provided on the tables below for using SAT, ACT, or AP test scores.

	SAT	ACT
Math 1	390	16
Math 2	400	17
Reading	350	13
Writing	380	15*
Science		16

*\*To satisfy the requirement for Writing, the student must take the ACT plus Writing If the student did not pass the math WASL/HSPE or a CAA Options alternative assessment, they will need additional math credits, as outlined below:*

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<b>AP Tests</b>	<b>Math = 3</b>	Calculus or Statistics examination
	<b>Reading = 3</b>	English Literature and Composition, Macroeconomics, Microeconomics, Psychology, United States History, World History, United States Government and Politics or Comparative Government and Politics examination
	<b>Writing = 3</b>	English Language and Composition examination

### Course Articulation Policy

If a student transfers an individual course (from a Washington state high school or community and technical college) that meets a specific state high school requirement category at the sending institution, that course is considered to have met that requirement at Green River, even if this course does not have an exact equivalent. It is the student's responsibility to initiate the articulation process. We recommend that incoming students work with a Green River advisor to gather appropriate documentation from their previous high school as needed. This is in accordance with OSPI guidelines for acceptance of credit and Washington state High School Diploma requirements.

### Course Options for Meeting Diploma Requirements

The chart on the following page provides a list of Washington State for high school graduation requirements and the Green River classes that will meet those requirements. **Students must pay careful attention to the graduation requirements for their particular graduation year and diploma pathway by consulting with their advisor.** This will ensure they take the correct courses to earn their diploma.



*Minimum Washington state High School Requirements	High School Credits (1 HS credit = 5 Green River credits)	<b>Green River College</b> Course options for students entering high school classes in Fall 2004 or later.	Green River Credits (1 HS credit = 5 Green River credits)
English	3 or 4 *	<b>Reading/Literature:</b> Read 084, 094, 104 or <b>Engl&amp;</b> 101, &112, &113, &114, 115, 160, 163, 165, 168, 180, 181, 183, 185, &220, &226, &227, &228, &244, &245, &246, 247, 248, 249, &254, &255, &256, 257; <b>TS</b> 75, 76 <b>Writing:</b> <b>Engl</b> 081 or 099, &101, 126, 127, 128, 109, &236, &237, 239 <b>Communications:</b> <b>Cmst</b> 100 or higher	15-20*
Math	2-3*	<b>Math</b> with 5 of those credits at Math 097 or higher.	10-15*
Science	2	10 credits of science with 5 of those credits being any lab science course that meets the lab science requirement (see AA degree for details): <b>AP</b> 103, 104; <b>Astr&amp;</b> 101; <b>Biol</b> 103, 110, or &100, &160; <b>Chem&amp;</b> 121, &131, &141; <b>Geol&amp;</b> 101, 107; <b>IDS</b> 101, 102, 103; <b>Ocea&amp;</b> 101; or <b>Phys&amp;</b> 110, &114, &115, &116; <b>TS</b> 085, 086	10
U.S. History	1	Select 5-8 credits from the following: <b>Hist</b> 021 (4 credits) and/or <b>Hist</b> 022 (4 credits) or <b>Hist</b> 135, <b>Hist&amp;</b> 136, <b>Hist&amp;</b> 137, <b>Hist</b> 220 (5 credits each)	5
Civics and Government	0.5	Select 5 credits from the following: <b>Hsc</b> 025 (5 credits) or <b>Pols&amp;</b> 202 (5 credits)	3
Washington State History **	0.5	Select 5 credits from the following: <b>Anth&amp;</b> 210, 211, &216, <b>Hist</b> 024 or <b>Hist&amp;</b> 214	3
Social Studies **	0.5	<b>AMES</b> 100, 150; <b>Anth</b> &100, &206, &234, &235; <b>Econ</b> 100, 194; <b>Geog&amp;</b> 100; <b>Geog</b> 123, &200, 201; or <b>Hist</b> 101, 102, 103, 120, 135, &136, &137, 224, 230, 231, 232, 233, 237, 240, 245, 250, &215; <b>TS</b> 65, 66	3
Contemporary World History, Geography, and Problems	1	Select 5 credits from the following: <b>Ames</b> 100; <b>Econ</b> 100; <b>Geog&amp;</b> 200, 201; <b>Hist</b> 103, 231, 250; <b>Phil</b> 102; <b>Pols&amp;</b> 101, &203, &204; or <b>Soc&amp;</b> 101 (5 credits each)	5
Fitness/Health	2	A minimum of 3 credits is required from List A. The remaining credits may be taken from any combination of List A and List B. <u>List A:</u> Health - <b>HI Ed</b> 150; <b>P E</b> 101, 102, 103, 111, 131, 149, 160, 165, 169 <u>List B:</u> Fitness - <b>HI Ed</b> 190; <b>P E</b> 107, 108, 109, 110, 112, 113, 114, 115, 117, 118, 119, 121, 122, 124, 125, 128, 129, 131, 132, 134, 136, 137, 138, 139, 140, 141, 143, 144, 147, 148, 150, 158, 193, 201, 202, 207, 210, 211, 212, 215, 216, 224, 231, 234, 236, 251, 253	10
Occupational Education	1	5 credits from any career/technical course with the following prefixes: <b>Aam, Acct; Abody; Atech; Avia; B A; Bus; Bus E; Carp; Crpt; CJ; CS; D T; Eced, Educ; Engr; H Hsc, H Sci; Indus; I E; IT; Journ; Mfg; Mtx; Natrs; Nurse; O T; Phi; Photo; PTA; R Est; Tech; Wwt; Wst; Wtech; Weld; or Econ</b> &201, &202	5
Arts	1	5 credits in any fine arts or performing arts course with the following prefixes: <b>Art; Dance; Drma; Musc; Photo</b>	5
Culminating Project and Educational Plan		<b>Hsc</b> 040 or <b>Engr</b> 100 or <b>Tech</b> 100 or other alternative approved by the High School Completion committee. <b>NOTE:</b> Any of the courses above may also count as an elective if not used to satisfy any other credit requirement.	
Electives	5 or 4 *	<b>20 - 25</b> credits, as needed to total of <b>95-100</b> credits. Any Green River credit, except <b>BASIC</b> or <b>ESOL</b> .	25 or 20*
Total credits	19-20		95-100*

\* Washington state high school graduation requirements are subject to change based on the student's incoming year. Be sure to talk about your specific plan of study with an advisor after receiving your official transcript evaluation from Enrollment Services.

\*\*Students who have taken Washington State History or Pacific NW History in high school will have satisfied this credit. Students who took either of these classes in Middle School will need to take a social studies class.

We strongly encourage students to make an educational plan with their advisor to ensure that they take the appropriate classes for their particular graduation requirements.

**NOTES**



# More Information

Course Descriptions • Reference • Glossary

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This section includes a brief description of each credit class offered on a regular basis at Green River College. Classes are arranged in alphabetical order according to the college department that offers the class.

Each listing includes a course number, course title, number of credits awarded and course description. Prerequisite and academic transfer distributions are also designated where appropriate. Common course numbers are identified by an "&" at the end of the department abbreviation.

Courses number 100-299 are designated for Green River College programs and courses that transfer to senior institutions (transfer is sometimes limited). The 100 series is ordinarily for first-year students and the 200 series for second-year students, but this distinction varies because of differing requirements of other colleges and universities. The 300 and 400 series are for third- and fourth-year students (limited to Information Technology Bachelor of Applied Science degree students).

Consult the "Program of Study" section of this catalog and your faculty advisor for specific information about each class and about which classes will meet your requirements.

Course descriptions are also available online at [greenriver.edu/catalog/courses/default.aspx](http://greenriver.edu/catalog/courses/default.aspx).

**Accounting (ACCT)**

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

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

**ACCT 112 (5)**  
**QuickBooks for Accounting**  
 The capstone financial accounting course for the accounting certificate. Provides hands-on experience in computerized, integrated accounting systems. Covers accounts receivable, accounts payable, payroll, inventory and job costs. PREREQUISITE: ACCT 110 or ACCT& 201 and BTAC 100 with a grade of 2.0 or higher; or instructor's permission.

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

**ACCT 118 (5)**  
**Individual Taxation**  
 Introduces the principles and problems in tax accounting for individuals. Includes the concepts of gross income, adjusted gross income, taxable income, deductions, exemptions, and credits. Provides experience in completing tax reporting forms manually and with tax return preparation software. PREREQUISITE: ACCT 111 or ACCT& 201 with a grade of 2.0 or higher; or instructor's permission.

**ACCT 121 (5)**  
**Payroll Accounting**  
 Introduces payroll calculations, payroll taxes, and record and report preparation. Includes a manual payroll project and computerized payroll accounting applications. PREREQUISITE: ACCT 110 or ACCT& 201 with a grade of 2.0 or higher.

**ACCT 130.1 (1)**  
**QuickBooks: Introduction and Customer Transaction**  
 Introduction to the types of companies that use QuickBooks Pro. Includes basic accounting practices and basic file management operations. Covers QuickBooks transactions, the customer center and service items. Students create invoices, receive payments, enter sales receipts, make deposits, and create statements and customer-related reports. RECOMMENDED: Keyboarding skills.

**ACCT 130.2 (1)**  
**QuickBooks: Vendor Transactions and Banking**  
 Introduces vendor transactions. Includes working with bills, entering and making changes to vendor information, paying bills, writing checks, and vendor-related and profit/loss reports. Covers the banking area of the home page, creates a bank account, edits accounts in the chart of accounts, and QuickBooks banking features.

**ACCT 130.3 (1)**  
**QuickBooks: Create a Company and Inventory**  
 Introduces company creation. Deals with choosing a start date, the default chart of accounts and customizing a company file. Includes file management, subaccounts, editing QuickBooks preferences, entering opening balances, and recording historical transactions. Covers balance sheet reports, QuickBooks inventory features, creating purchase orders, sales tax, the effects on inventory of selling and receiving items on the inventory, and inventory management reports.

**ACCT 130.4 (1)**  
**QuickBooks: Payroll and Balance Sheet**  
 Uses QuickBooks for payroll and working with balance sheet accounts. Introduces QuickBooks payroll, including creating employee lists, creating paychecks and pay stubs, and passing billable time on to customers. Includes payroll liabilities, such as sales and payroll taxes, and payroll reports and forms. Covers other current assets, fixed assets, long term liabilities, and equity.

**ACCT 130.5 (1)**  
**QuickBooks: Estimates, Job Costing and Time**  
 Includes setting up, managing and, applying classes to transactions running a profit and loss by class report. job estimates and customer invoicing in stages or for the entire amount. Covers time tracking, preset reports to review job profitability, create journal entries, customize reports and graphs, create a custom invoice template, and work with the layout designer.

**ACCT 175 (1-5)**  
**Accounting Instructor Aide**  
 Students assist the instructor. Aides work with other students in accounting classes, answering their questions, and doing tutorial-type work. PREREQUISITE: Instructor's permission.

**ACCT& 201 (5)**  
**Principles of Accounting I**  
 The first course in the accounting transfer sequence. Introduces basic principles, concepts, theories and procedures of recording, analyzing, and interpreting financial data. Students learn fundamentals of the accounting cycle, recording and classifying of transactions, and construction of financial statements. Students study manual and electronic accounting systems, accounting for cash, internal control, receivables, payables, and inventory. Includes computer application. PREREQUISITE: Eligible for ENGL& 101 and MATH 147; or instructor's permission.

**ACCT& 202 (5)**  
**Principles of Accounting II**  
 The second course in the accounting transfer sequence. Topics include fixed assets, liability and equity sections of the balance sheet, the statement of cash flows, and financial statement analysis. Uses problem solving and application of generally-accepted accounting principles to promote critical reasoning. Includes computer application. PREREQUISITE: Eligible for ENGL& 101, and MATH 147; and ACCT& 201, all with a grade of 2.0 or higher; or instructor's permission. RECOMMENDED: BUS& 101 and spreadsheet skills.

**ACCT& 203 (5)**  
**Principles of Accounting III**  
 The third course in the accounting transfer sequence. Covers introductory concepts of managerial accounting. Topics include absorption and variable costing, job costing, cash and capital budgeting. Includes computer application. PREREQUISITE: Eligible for ENGL& 101 and MATH 147; and ACCT& 202 with a grade of 2.0 or higher; or instructor's permission. RECOMMENDED: ECON& 202 and MATH 147 prior to enrolling in this course and spreadsheet skills.

## 110 Course Descriptions

### Aerospace and Advanced Manufacturing (AAM)

#### AAM 101 (13) Principles of Precision Machining 1

Covers conventional machining, basic blueprint reading and math, health and safety, and introduction to Computer Numerical Control (CNC) machining. Coursework is divided between lab assignments, lecture and reading/workbook assignments. Students divided their time between lecture and lab work each week. A significant amount of lab time is dedicated to conventional mills and lathes. Basic computer skills are highly recommended: Windows, internet and email. PREREQUISITE: Instructor's permission.

#### AAM 102 (13) Principles of Precision Machining 2

Covers advanced blueprint reading skills. Includes understanding of Geometric Dimensioning and Tolerancing (GD&T), applied math skills including geometry and trigonometry, CNC machine programming and operation. Coursework is divided between lab assignments, lecture and reading/workbook assignments. Student dedicates a significant portion of lab time to conventional mills and lathes. Basic computer skills are highly recommended: Windows, internet and email. PREREQUISITE: Instructor's permission.

#### AAM 103 (13) Machine Maintenance 1

In-depth instruction in industry and workplace safety awareness and practices. Prepares the entry level machine maintenance technician with the knowledge and skills necessary to maintain, diagnose, and repair elementary hydraulic and pneumatic systems. Introduces students to the fundamental mechanical concepts necessary for the installation, operation, and maintenance of industrial machinery. Students acquire the skills to design and interpret industrial prints and component schematics. Basic computer skills are highly recommended: Windows, internet and email. PREREQUISITE: Eligible for ENGL 081, MATH 072, and READ 104 ; or instructor's permission.

#### AAM 104 (13) Machine Maintenance 2

Covers techniques of assembling, rigging, and installing mechanical equipment. Students learn to work with mechanical transmission devices, including procedures for installation, removal, and maintenance. Upon completion students will have an understanding of preventive, predictive, corrective, and reliability-centered maintenance. Students study the development of a comprehensive maintenance program and learn how to use a computerized maintenance management system. Basic computer skills are highly recommended: Windows, internet and email. PREREQUISITE: Eligible for ENGL 081, MATH 072, and READ 104; or instructor's permission.

#### AAM 105 (7) Quality Assurance 1

Helps student to select, set-up and inspect machine parts, based on specifications and tolerancing standards. Students learn to read and interpret GD&T information along with standard tolerances. Students practice set-up, record measurements, and determine discrepancies in Co-Ordinate Measuring Machines (CMM). Basic computer skills are highly recommended: Windows, internet and email. PREREQUISITE: Eligible for ENGL 081, MATH 072, and READ 104; or instructor's permission.

#### AAM 106 (7) Quality Assurance 2

Prepares the students for the knowledge and skills required to effectively write instructions or "tie-ins". Topics include operation of mechanical lifts, knowledge of the different fasteners and allowable substitutions, use of computer for data search and input, and understanding of statistical process controls. Basic computer skills are highly recommended: Windows, internet and email. PREREQUISITE: Eligible for ENGL 081, MATH 072, and READ 104; or instructor's permission.

#### AAM 107 (7) Inspection 1

Prepares the students to read and interpret drawings for the inspection segment of the manufacturing industry. Includes drawing symbols, thread nomenclature, and dimension conversion: (metric to inch and inch to metric), notes and title blocks, and dimensioning systems. Students get an understanding of assembly and manufacturing processes and safe working practices and emergency procedures. Basic computer skills are highly recommended: Windows, internet and email. PREREQUISITE: Eligible for ENGL 081, MATH 072, and READ 104; or instructor's permission.

#### AAM 107.1 (4) Print Reading for Inspection

Read and interpret drawings for the inspection segment of the manufacturing industry. Includes drawing symbols, thread nomenclature, and dimension conversion: metric to inch and inch to metric, notes and title blocks, and dimensioning system. PREREQUISITE: Eligible for ENGL 081, MATH 072, and READ 104; or instructor's permission.

#### AAM 107.2 (3) Inspection Measuring Basics

Assembly and manufacturing processes and safe working practices and emergency procedures. Basic computer skills are highly recommended. PREREQUISITE: Eligible for ENGL 081, MATH 072 and READ 104; or instructor's permission.

#### AAM 108 (7) Inspection 2

Students select, set-up, and inspect machine parts, based on specifications and tolerancing standards. Students learn to read and interpret GD&T information along with standard tolerances. Students practice set up, record measurements and determines discrepancies with Co-ordinate Measuring Machines (CMM). Basic computer skills are highly recommended: Windows, internet and email. PREREQUISITE: Eligible for ENGL 081, MATH 072, and READ 104; or instructor's permission.

#### AAM 108.1 (4) Geometric Dimensioning & Tolerancing for Quality Inspection

Students select, set up and inspect machine parts, based on specifications and tolerancing standards. Students learn to read and interpret Geometric Dimensioning & Tolerancing (GD&T) information along with standard tolerances. PREREQUISITE: Eligible for ENGL 081, MATH 072 and READ 104; or instructor's permission.

#### AAM 108.2 (3) Computerized Measuring for Inspection

Students practice set up, record measurements and determines discrepancies with Co-ordinate Measuring Machines (CMM). Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: Eligible for ENGL 081, MATH 072 and READ 104; or instructor's permission.

### American Minority and Ethnic Studies (AMES)

#### AMES 100 (5) Introduction to American Minority and Ethnic Studies

Social and historical overview of the interrelationships between Native American, African American, Latino and Asian Americans in the United States. Focuses on relations with each other and with the dominant society. PREREQUISITE: Eligible for ENGL 099. Satisfies a social science and the diversity course requirements for AA degree.

#### AMES 150 (5) Race and Ethnicity in the Pacific

An interdisciplinary social and theoretical overview of the interrelationships that exist among various groups in the Northwest consisting of Washington, Oregon, and Idaho. Focuses on the historical, economic, political and social connections of Native American, African American, Latino/a, and Asian American/Pacific Islander with each other and with the dominant society. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

**AMES 194 (1-5)**  
**Special Topics-American Minority and Ethnic Studies**

Focuses on a special topic in ethnic studies. Course presentations develop theoretical concepts for students. Students may repeat the course when a different topic is presented. PREREQUISITE: Eligible for ENGL 099 or instructor's permission.

**AMES 211 (5)**  
**Nuu-Chah-Nulth Indians**

Examines the Nuu-Chah-Nulth peoples of the Northwest Coast, as they are known from historical, ethnographic and informant sources. Including field course conjunction with the Clayoquot Sound Summer Program. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Cross-listed with ANTH 211 and S SCI 211. Satisfies a social science requirement for AA degree.

**AMES 299 (1-5)**  
**Independent Study-American Minority and Ethnic Studies**

Allows a student to study independently in a special interest area in American and ethnic minority studies. Student and instructor decide course content, type and scope of work. PREREQUISITE: AMES 100 and instructor's permission.

**Anatomy and Physiology (AP)**

**AP 100 (5)**  
**Survey of Human Anatomy and Physiology**

Covers the basics of human anatomy and physiology including anatomical terminology, basic biochemistry, cells and tissues, and the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Introduces common human disease processes. Prepares non-science majors and allied-health profession students to take advanced anatomy and physiology courses. PREREQUISITE: Eligible for ENGL& 101. Satisfies a natural science requirement for AA degree.

**AP 102 (5)**  
**Bringing Anatomy and Physiology to Life**

Intended for non-science majors interested in taking human anatomy and physiology, and for students who are not pursuing an allied health career. Develops an understanding of the structure and function of some of the key systems in the human body. Non-lab science course. PREREQUISITE: Eligible for ENGL& 101 or MATH 072. Satisfies a natural science requirement for AA degree.

**AP 103 (5)**  
**Essentials of Human Anatomy and Physiology 1**

First of a two-quarter introductory course sequence in human anatomy and physiology, including the study of structure and function of cells, tissues, and the integumentary, skeletal, muscular, and nervous systems. Introduces common human disease processes. Laboratory component includes anatomical studies using microscopy and dissection and the study of physiological concepts via experimentation. AP 100 strongly recommended. PREREQUISITE: Eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**AP 104 (5)**  
**Essentials of Human Anatomy and Physiology 2**

Second of a two-quarter introductory course sequence in human anatomy and physiology, including the study of the endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Introduces common human disease processes. Laboratory component includes anatomical studies using microscopy and dissection and the study of physiological concepts via experimentation. PREREQUISITE: AP 103 and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**AP 210 (1)**  
**Cadaver Anatomy**

Comprehensive review of human cadaver anatomy for health professionals and students of the health professions. Covers major muscles, skin, bones, joints, internal organs, blood vessels, the brain, spinal cord and major nerves. Uses dissected cadavers to study anatomical variations, pathologies, and anatomical change due to the aging process. PREREQUISITE: Concurrent enrollment in AP 104 or BIOL& 242 and eligible for ENGL& 101; or instructor's permission. Satisfies a natural science requirement for AA degree.

**Anthropology (ANTH)**

**ANTH& 100 (5)**  
**Survey of Anthropology**

Provides a basic understanding of the four sub-fields of anthropology: physical anthropology, archaeology, linguistics, and sociocultural anthropology. Units of study include evolution, culture, human biological and cultural origins, primate behavior, pre-history, language acquisition, and cultural development. PREREQUISITE: Eligible for ENGL 099 or instructor's permission.

**ANTH 194 (1-5)**  
**Special Topics-Anthropology 1**

Focuses on a special topic in anthropology. Course presentations develop theoretical concepts for students. Students may repeat the course when a different topic is presented. PREREQUISITE: Eligible for ENGL 099 or instructor's permission.

**ANTH& 204 (5)**  
**Archaeology**

An introduction to the techniques, methods and goals of archaeological research, including excavation and dating of archaeological materials and general problems encountered in explaining archaeological phenomena. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

**ANTH& 205 (5)**  
**Biological Anthropology**

Study of human evolution including theories of evolution by natural selection and other means. Examines human evolution through the fossil record, the comparison of human and non-human primates in behavior and morphology, and modern human variations and their implications to human adaptation. PREREQUISITE: ANTH& 100, BIOL& 100, BIOL& 211, or instructor's permission. Eligible for ENGL& 101 or instructor's permission. Satisfies a natural science or social science requirement for AA degree.

**ANTH& 206 (5)**  
**Cultural Anthropology**

Study of the field of sociocultural anthropology with emphasis on the nature of culture, types of social systems in society, and the way they work. Includes theoretical and methodological issues in anthropology, as well as ethnographic studies. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

**ANTH& 207 (5)**  
**Linguistic Anthropology**

Introduces the sub-discipline of linguistics within the larger discipline of anthropology. Covers methods and theories in the study of language in anthropology, including the structure of language, language through history, a comparison between human and non-human communication, the innate human capacity for language, the relationship between language, thought, and culture, and the study of language, power, and identity. Course emphasizes cross-cultural perspective. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

**ANTH& 210 (5)**  
**Indians of North America**

Study of the Indians of North America (north of Mexico) as they are known from historical and ethnographic sources. Covers the representative cultures of all the major regions with some greater emphasis on the northwest coast. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

## 112 Course Descriptions

### **ANTH 211 (5)** **Nuu-Chah-Nulth-Indians**

Covers the historical, ethnographic and informant sources of the Nuu-Chah-Nulth peoples of the Northwest Coast, including field work in conjunction with the Clayoquot Sound Summer Program. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Cross-listed with AMES 211 and S SCI 211. Satisfies a social science requirement for AA degree.

### **ANTH& 216 (5)** **Northwest Coast Indians**

Covers the historical, ethnographic and informant sources of the Native American cultures of the Northwest Coast, which encompasses a cultural area extending from southern Alaska to northern California with an internal boundary of the Cascade Mountains. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **ANTH& 234 (5)** **Religion and Culture**

Introduces the concepts and theories characterizing the anthropological study of religion as a system within culture. Focuses on the cross-cultural examination of religious organizations, beliefs, rituals and practitioners. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **ANTH& 235 (5)** **Cross-Cultural Medicine**

Uses ethnographic, informant and popular sources to study cross-cultural examination of health beliefs, care systems and healer/patient relationships. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **ANTH& 236 (5)** **Forensic Anthropology**

Covers the application of physical anthropology to medico-legal death investigation. Introduces the science of skeletal biology, the associated concepts of human variation, and their applications within a forensic context. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **ANTH 273 (1-10)** **Field Archeology**

Provides the student with fieldwork in archaeology through experiences in site survey, excavation, recording, classifying, cataloging and reporting. PREREQUISITE: ANTH& 100 and eligible for ENGL& 101; or instructor's permission. Satisfies a social science requirement for AA degree.

### **ANTH 294 (1-5)** **Special Topics-Anthropology 2**

Focuses on a special topic in anthropology. Course presentations develop theoretical concepts for students. Students may repeat the course when a different topic is presented. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission.

### **ANTH 298-299 (1-5)** **Independent Study-Anthropology 1-2**

Allows student to pursue a special interest in anthropology under the direction of an instructor. PREREQUISITE: Instructor's permission.

### **Art (ART)**

### **ART& 100 (5)** **Art Appreciation**

Introduces the basic elements and principles of art and the media with which artists create. Satisfies a humanities/fine arts/ English requirement for AA degree.

### **ART 105 (5)** **Beginning Drawing**

Covers the use of line, shape, light and shadow, perspective, and fundamentals of composition in the context of drawing based on observation and creative expression. Introduces students to the figure, forms in nature, landscape, interior spaces, and still life. Satisfies an activity or a humanities/ fine arts/English requirement for AA degree.

### **ART 106 (5)** **Intermediate Drawing**

Focuses on the human form as a basis for learning about anatomy, composition, relationship of figure to environment, line, shape, value, and color. PREREQUISITE: ART 105 or instructor's permission. Satisfies an activity or a humanities/ fine arts/English requirement for AA degree.

### **ART 107 (5)** **Advanced Drawing**

Further explores the human form as subject matter for drawing as a means of creating a coherent visual and expressive statement. PREREQUISITE: ART 106 or instructor's permission. Satisfies an activity or a humanities/ fine arts/English requirement for AA degree.

### **ART 109 (5)** **Beginning Design**

Introduces the visual elements of design and the fundamental principles of visual organization. Uses computers and traditional materials. Through visual problem solving, students strengthen compositional skills while obtaining a better understanding of the visual world and the vocabulary with which to discuss it. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ART 110 (5)** **Intermediate Design and Color**

Continues the study of two-dimensional design through exploration and understanding of color theory. In-depth exploration of color theory principles such as additive and subtractive color systems, color harmony and palette analysis, color interaction and the expressive impact of color. Digital and traditional media are used for visual problem solving exercises. PREREQUISITE: ART 109 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ART 111 (5)** **Painting 1**

Introduces students to traditional and contemporary concepts and techniques in oil painting. Working from still life and landscape, students learn to organize form, color, and tone while practicing various methods of application, color mixing, and surface preparation. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

### **ART 112 (5)** **Painting 2**

Students further the skills taught in ART 111 and investigate painting as a means for self-expression. Explores advanced compositions and use of various materials. PREREQUISITE: ART 111. Satisfies an activity or a humanities/fine arts/ English requirement for AA degree.

### **ART 113 (5)** **Painting 3**

Provides advanced instruction in painting using objectives taught in ART 112. Students demonstrate advanced compositional theories and painting methods. PREREQUISITE: ART 112. Satisfies an activity or a humanities/fine arts/ English requirement for AA degree.

### **ART 114 (3-5)** **Pottery 1**

Students develop an appreciation of clay as an art medium. Introduces students to the fundamental methods of clay construction, hand building, and the use of the potter's wheel through utilitarian pottery and sculpture. Course traces the history of ceramics and its development from a global thematic approach. Art transfer students must take ART 251 instead of ART 114. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

### **ART 115 (3-5)** **Pottery 2**

Students continue to develop their skills on and off the potter's wheel. Instructor leads students through discussions of the forming process of object-making. Encourages students to explore the visual, tactile, and intellectual possibilities through this art medium. Art transfer majors must take ART 252 instead of ART 115. PREREQUISITE: ART 114. Satisfies a humanities/ fine arts/English requirement for AA degree.

### **ART 119 (5)** **3-Dimensional Design**

Explores the fundamentals of form and space with 3-D projects. Students investigate various mixed media materials, and become familiar with structure, mass, color, and scale. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.



- ART 120 (5)**  
**Introduction to Graphic Design**  
 Introduces the principles of graphic form to convey meaning and communicate ideas through text and imagery. Students learn the principles of visual communication through compositional-layout, color and typography in a variety of formats. Digital and traditional media are used for visual problem solving exercises. PREREQUISITE: ART 109 or concurrent enrollment. Satisfies a humanities/fine arts/English requirement for AA degree.
- ART 122 (5)**  
**Visual Concepts of Web Design**  
 Focuses on elements and principles of design as they apply to the internet, with emphasis on creating a website that is aesthetic and functional. Course evaluates past visual trends in web design as well as implement latest trends, tools and software used by today's designers in the field. RECOMMEND: ART 110 and/or ART 120. PREREQUISITE: ART 109.
- ART 130 (3)**  
**Watercolor Painting**  
 Combines watercolor techniques with drawing media to create landscapes, interiors, and figure studies from observation. Emphasizes building foundational skills for the purpose of expressive sketchbooks, illustrations, notational journal drawings, and portfolio presentations. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.
- ART 133 (3)**  
**Portrait Drawing**  
 Students learn to draw realistic portraits by studying proportion, anatomy, and foreshortening. Using models, students practice rendering the skull, facial features, and shoulders from a variety of perspectives. RECOMMEND: ART 105. Satisfies a humanities/fine arts/English requirement for AA degree.
- ART 135 (3)**  
**Introduction to Screen Printing**  
 Introduces the traditional and contemporary concepts and techniques of screen printing. Satisfies a humanities/fine arts/English requirement for AA degree.
- ART 150 (3)**  
**Literary/Art Journal Design**  
 Leads students through the process of creating a student-centered literary and art journal for Green River Community College. Assigns students with specific tasks and oversight of all elements in the production of a journal of student fiction, poetry, artwork and photography.
- ART 177-179 (1-5)**  
**Art Work Experience 1-3**  
 Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Instructor's permission.
- ART 180 (3)**  
**The Artist's Portfolio**  
 Leads students through the process of organizing a body of artwork into a portfolio. Through discussions, critiques, and demonstrations, students learn how to assemble, document, and provide support materials for a professional portfolio. Course ends with an art exhibition of the student's work. PREREQUISITE: ART 105 and 109; or instructor's permission.
- ART 194 (1-5)**  
**Special Topics-Art**  
 Study of special subject-matter that is not part of the regular art curriculum. Course content varies each time course is offered.
- ART 199 (1-5)**  
**Independent Study-Design**  
 Encourages students to study and develop independently in their major areas of advanced design. Students develop their own objectives, evaluation criteria and performance standards in conjunction with the appropriate instructor. PREREQUISITE: Instructor's permission.
- ART 212 (5)**  
**History of Art 1**  
 Study of the development of visual art from the Prehistoric Period to the Gothic Period of Western Civilization. Satisfies a humanities/fine arts/English requirement for AA degree.
- ART 213 (5)**  
**History of Art 2**  
 Study of the development of visual art from the Gothic Period to the beginning of the Romantic Period. Satisfies a humanities/fine arts/English requirement for AA degree.
- ART 214 (5)**  
**History of Art 3**  
 Study of the development of visual art from the Romantic Period up to and including contemporary art. Satisfies a humanities/fine arts/English requirement for AA degree.
- ART 219 (5)**  
**Advanced 3-Dimensional Design**  
 Further development of 3-dimensional design concepts as they apply to the visual arts. Students work on an independent project, developing an idea through various design stages, culminating in the installation of a final sculpture. PREREQUISITE: ART 109 and 119. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.
- ART 251 (5)**  
**Ceramics 1**  
 Introduces students to conceptual problems and challenges with developing solutions in clay. Students demonstrate their understanding of the narrative object and its effectiveness in communicating ideas, values, and identity. Exposes students to non-traditional processes in clay construction, glaze application, firing process, and finishing surfaces, and discusses their aesthetic choices. PREREQUISITE: ART 114 and 115; and ART 105 or 109; or instructor's permission. Satisfies a humanities/fine arts/English requirements for AA degree.
- ART 252 (5)**  
**Ceramics 2**  
 Intermediate course in ceramics in which students demonstrate a complete understanding of the ceramic process through clay construction and firing. Students gain knowledge of various clay bodies, glaze properties and effects. Students demonstrate the ability to work responsibly and safely in the glaze room and mix, test, and assess fired glaze results. Students begin to develop the sensibilities to integrate concept and material in their approach to ceramics. PREREQUISITE: ART 251 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.
- ART 253 (5)**  
**Ceramics 3**  
 Advanced course in ceramics with an emphasis on the rigors of developing the conceptual skills of art making. Students develop an individual approach to a full integration of ideas, materials, and process. Encourages students to experiment with different strategies of clay construction and firing. PREREQUISITE: ART 252 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.
- ART 255 (5)**  
**Advanced Painting 1**  
 Covers theory, as well as practice and encourages originality and creativity. Furthers student understanding of the methods, materials, and ideas that are central to the practice of painting still lifes, figures, and landscapes. PREREQUISITE: ART 105, 109, 111 or instructor's permission. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.
- ART 256 (5)**  
**Advanced Painting 2**  
 Students continue to develop their skills in painting by focusing on advanced compositional theories and abstract concepts. Explores value, pattern, tone, mood, and color theories to stretch and refine abilities. Emphasizes the creative process from concept to finished art. PREREQUISITE: ART 255. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

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### ART 257 (5) Advanced Painting 3

Explores traditional and contemporary approaches to the theory and practice of painting. Emphasizes evoking emotional responses through effects of light, color, and abstraction. Students work in a series and further explore materials and subject matter. PREREQUISITE: ART 256. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

### ART 275-277 (1-5) Independent Study-Ceramics 1-3

Emphasizes the development of an individual approach to art-making. Students submit proposals with project descriptions. Assesses student's development and progress through faculty visits. PREREQUISITE: Instructor's permission.

### ART 294 (1-5) Independent Study-Painting 1

Encourages students to study and develop independently in their major areas of painting. Students develop their own objectives, evaluation criteria and performance standards in conjunction with the appropriate instructor. PREREQUISITE: Instructor's permission.

### ART 295 (1-5) Independent Study-Painting 2

Continuation of ART 294. Encourages students to study and develop independently in their major areas of painting. Students develop their own objectives, evaluation criteria and performance standards in conjunction with the appropriate instructor. PREREQUISITE: Instructor's permission.

### ART 296 (1-5) Independent Study-Painting 3

Continuation of ART 295. Encourages students to study and develop independently in their major areas of painting. Students develop their own objectives, evaluation criteria and performance standards in conjunction with the appropriate instructor. PREREQUISITE: Instructor's permission.

### ART 297 (1-5) Independent Study-Advanced Drawing 1

Encourages students to study and develop independently in their major areas of advanced drawing. Students develop their own objectives, evaluation criteria and performance standards in conjunction with the appropriate instructor. PREREQUISITE: Instructor's permission.

### ART 298 (1-5) Independent Study-Advanced Drawing 2

Continuation of ART 297. Encourages students to study and develop independently in their major areas of advanced drawing. Students develop their own objectives, evaluation criteria and performance standards in conjunction with the appropriate instructor. PREREQUISITE: Instructor's permission.

### ART 299 (1-5) Independent Study-Advanced Drawing 3

Continuation of ART 298. Encourages students to study and develop independently in their major areas of advanced drawing. Students develop their own objectives, evaluation criteria and performance standards in conjunction with the appropriate instructor. PREREQUISITE: Instructor's permission.

## Astronomy (ASTR)

### ASTR& 100 (5) Survey of Astronomy

Introduces the history of astronomy, star formation, life cycle and death, galactic astronomy, the beginning and evolution of the universe, solar system formation and operation, and the possibility of intelligent life elsewhere in the universe. Does not include a laboratory experience. Not open to students who have taken ASTR& 101. PREREQUISITE: Eligible for ENGL& 101. Satisfies a natural science requirement for AA degree.

### ASTR& 101 (5) Introduction to Astronomy

Presents a unified account of contemporary astronomy beginning with our earth, and moving outward toward our solar system and beyond to the stars of our home galaxy, and out into the physical universe. Laboratory portion introduces students to methods and techniques commonly employed in astronomy. Actual experiments vary depending upon weather conditions and observable celestial objects. Not open to students who have taken ASTR& 100. PREREQUISITE: ENGL& 101 or eligible for ENGL& 101 or instructor's permission. Satisfies a lab or natural science requirement for AA degree.

## Automotive Technology (ATECH)

### ATECH 108.1 (4) State Emission Control Specialist Phase I

Presents fundamental principles and terminology of automotive emission control systems. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. Students passing with an 80 percent score receive a certificate from the Department of Ecology designating them a State Emissions Specialist. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### ATECH 108.3 (2) Emissions Recertification

Presents fundamental principles and terminology of automotive emission control systems. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. Students passing with an 80 percent score receive a certificate from the Department of Ecology designating them a State Emissions Specialist. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### ATECH 110 (2) Shop Procedures

Includes use and maintenance of special tools and equipment, service and repair, record keeping, use of technical reference materials and regulations governing the automotive repair industry. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal safety and a safe workplace, and handling and disposal of hazardous materials. PREREQUISITE: Instructor's permission and eligible for READ 104.

### ATECH 111 (1-14) Electrical and Electronics Systems

Presents fundamental principles and terminology of automotive electrical systems. Use of Ohm's Law, wiring diagrams, diagnostic, and test instruments. Covers diagnosis and repair of batteries, starting systems, charging systems, lighting systems, operator information and warning systems, and onboard body computer control systems. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. PREREQUISITE: ATECH 110 and instructor's permission. Eligible for READ 104.

### ATECH 112 (1-14) Engine Performance

Encompasses spark system management, emissions control, computerized engine control system sensors and actuators and use of diagnostic equipment necessary to test, adjust, and repair engine systems. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. PREREQUISITE: ATECH 110, 111 and instructor's permission. Eligible for READ 104.

### ATECH 113 (1-3) Engine Repair

Covers internal combustion engine mechanical systems and components operation including diagnosis of component or system malfunctions. Includes practical application in cylinder head reconditioning and repair. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. PREREQUISITE: ATECH 110 and instructor's permission. Eligible for READ 104.

### ATECH 114 (1-8) Automatic Transmission and Transaxle

Covers theory, application, diagnosis and repair of fluid power, hydraulics, power transmission, and final drive units as applied to automatic transmissions and trans-axles. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. PREREQUISITE: ATECH 110 and instructor's permission. Eligible for READ 104.

**ATECH 115 (1-6)**  
**Manual Drive Trains and Axles**  
 Covers theory, diagnosis, adjustment and repair of manual drive train components: i.e., clutch transmission, drive line and axles. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. PREREQUISITE: ATECH 110 and instructor's permission. Eligible for READ 104.

**ATECH 116 (1-6)**  
**Suspension and Steering**  
 Covers application of automotive suspension and steering systems. Topics include tires and wheels, suspension systems, two and four wheel alignment, diagnosis, adjustment, and repair of systems and components. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. PREREQUISITE: ATECH 110 and instructor's permission. Eligible for READ 104.

**ATECH 117 (1-7)**  
**Brakes**  
 Covers theory, diagnosis, adjustments, and repair of automotive brake systems to include hydraulic systems, drum brakes, boosters, parking brakes and anti-skid brake system (ABS). Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. PREREQUISITE: ATECH 110 and instructor's permission. Eligible for READ 104.

**ATECH 118 (1-6)**  
**Heating and Air Conditioning**  
 A modular, self-paced course in automotive heating and air conditioning systems including diagnosis, service and repair of systems and system components. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. PREREQUISITE: ATECH 110 and instructor's permission. Eligible for READ 104.

**ATECH 119 (1-12)**  
**Special Shop Practice**  
 Practical application and development of skills acquired during study and application of competencies listed in course modules ATECH 111 through 118. Emphasizes development of a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and hazardous materials handling and disposal. PREREQUISITE: ATECH 110 and instructor's permission. Eligible for READ 104.

**ATECH 150-154 (1)**  
**Automotive Leadership Skills 1-5**  
 Provides personal development experiences through participation in class, as well as leadership activities at school and in the community. Emphasizes individual participation to identify, plan, implement, promote, and evaluate activities. Provides instruction to facilitate development of personal skills in such areas as speaking, applying for a job, practicing management skills, and developing a plan of work. PREREQUISITE: Instructor's permission.

**ATECH 177 (1-13)**  
**Automotive Work Experience**  
 Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Instructor's permission.

**ATECH 194 (1-13)**  
**Special Topics-Automotive**  
 Provides training to meet established local needs in automotive repair industry, supplemental to classes currently offered. PREREQUISITE: Instructor's permission.

**Aviation (AVIA)**

**AVIA 101 (5)**  
**Aviation Fundamentals**  
 Covers basic aviation phraseology, air traffic glossary, definitions, acronyms and terms that pilots, air traffic controllers and flight operations managers use to operate and control aircraft and to manage flight operations. Includes aviation scenario practice with US and ICAO aviation rules and procedures, flight planning, aeronautical charts, aeronautical calculations, airspace, aerial navigation, aircraft weight and balance, aircraft performance, and aircraft flight systems. PREREQUISITE: Instructor's permission.

**AVIA 103 (5)**  
**Aviation History and Careers**  
 Provides students with a clear understanding of aviation, its history, and technological developments in the past, and future. Also addresses the range of career opportunities in the field of aviation, including flight instructor, airline captain, air traffic controller, and aircraft dispatcher.

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

**AVIA 110 (5)**  
**Airline Operation**  
 Covers operation of large U.S. and international airlines. Includes setting passenger fares and cargo rates, regulations, marketing, labor, responding to competition, scheduling, reservations, dispatch and aircraft selection. Also includes discussion of aviation careers.

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

**AVIA 112 (5)**  
**Aircraft Systems**  
 Covers general aviation and commercial aircraft systems, navigation systems and flight deck technologies currently in use in general aviation and commercial aircraft.

**AVIA 121 (2)**  
**Basic Weather Theory**  
 Covers topics necessary to become National Weather Service certified observer. Topics include the understanding of basic weather processes, geographical weather patterns, and the causes of hazardous weather around the planet, such as thunderstorms, wind shear, and severe icing conditions. Students learn the general circulation pattern of wind, temperature and pressure differences around the planet.

**AVIA 123 (5)**  
**Aviation Weather**  
 Covers theory of weather processes and interpretation of weather reports and charts. Includes special aviation-related topics such as high-altitude weather, arctic weather and tropical weather. Students gain a fundamental knowledge of weather observation and forecasting techniques and instruments. Discusses special aviation problems such as windshear and micro-burst detection. Covers Terminal Aerodrome Forecast/Aviation Routine Weather.

**AVIA 127 (1)**  
**Basic Weather Reports**  
 Students gain a fundamental knowledge of weather observation and forecasting techniques and instruments. Students solve special aviation problems, such as windshear and micro-burst detection. Covers Terminal Aerodrome Forecast/Aviation Routine Weather.

**AVIA 128 (3)**  
**Basic Weather Observation**  
 Provides participants with the knowledge to create and decipher aviation weather reports. A strong background in aviation weather is very important in the aviation field. Pilots, dispatchers, air traffic controllers, flight service personnel and weather observers deal with this weather information in extreme depth on a daily basis.

**AVIA 129 (5)**  
**Unmanned Aerial Vehicle Basics**  
 Introduces students to the more complex areas of the unmanned aerial systems industry. Topics include federal regulations for UAS, regulatory environment for commercial use, economic impact, and components of unmanned aerial vehicles. Allows students to learn the manufacturing and maintenance of the UAS. Also introduces the basic flight characteristics of UAS. PREREQUISITE: AVIA 109.

## 116 Course Descriptions

### AVIA 160 (2-5)

#### Aviation Communication

Provides intensive instruction and practice in listening and speaking the words and phrases used in pilot-controller-dispatcher radio communication. Emphasizes accuracy and efficiency. Course very useful for, but not limited to, persons who have completed ESOL. In both USA and ICAO (International) format.

### AVIA 161 (3)

#### Basic Aviation Terminology

Covers all basic definitions, acronyms and abbreviations used in the aviation industry as well as their uses and applications. Assists in preparing for the FAA Private Pilot written exam.

### AVIA 177-179 (1-13)

#### Aviation Work Experience 1-3

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Instructor's permission.

### AVIA 190 (5)

#### FAA Next Generation Technologies

Covers technologies and procedures the FAA is using as the FAA migrates from the existing National Airspace System infrastructure and technology to the FAA Next Generation National Airspace System infrastructure and technology. PREREQUISITE: AVIA 111, 112 and 123; or instructor's permission.

### AVIA 206 (3)

#### Helicopter Ground School

Covers helicopter aerodynamics, systems, operations, emergencies, flight regulations, weight and balance, pinnacle and slope operations, external loads, high altitude operation, large helicopter operations and other subjects pertaining to the FAA Private Pilot and Commercial Pilot Knowledge examinations.

### AVIA 210 (5)

#### Aviation and the Law

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

### AVIA 211 (5)

#### Aerodynamics for Pilots

Covers aerodynamic forces, symbols-equations, airspeed measurements, the four forces of light, jet aircraft performance, propeller aircraft performance, helicopter aerodynamics, stability, takeoff and landing performance.

### AVIA 212 (5)

#### Aviation Safety and Human Factors

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

### AVIA 214 (5)

#### Airport Management and Operations

Provides basic knowledge in airport operations and management for airport operations, interaction with political entities, public relations with local communities and local entities, working with government (local, state and federal) regarding airport operations and management directives governing airport safety responsibilities, relationships with commercial air carriers, fixed-base operators, community residents, aviation authorities and environmental authorities. Provides a basic understanding of how airport managers address federal airport standards for basic airport functions involving air safety, ground and flight operations, airport budgets and finances aspects and airport planning. PREREQUISITE: Instructor's permission.

### AVIA 216 (5)

#### Basic Instrument Pilot Ground School

Provides students with information to pass the FAA instrument pilot written examination. Covers basic instrument flight procedures and planning including radio navigation, IFR flight planning and decision-making, ATC procedures, and FAA regulations pertinent to instrument flight. FAA part 141 approved. PREREQUISITE: AVIA 111 or instructor's permission.

### AVIA 217 (5)

#### Aviation Security

Provides a basic framework for understanding aviation security philosophy, rules, procedures and methods. Covers security for commercial aviation operations and general aviation operations including airport security, passenger and baggage security, and cargo security.

### AVIA 218 (5)

#### Commercial Pilot Ground School

Topics include navigation, weather, advanced aircraft performance, high-power engine operation, multi-engine factors, regulations, weight shift, instrument flight and communication, and airspace. FAA Part 141 approved. Prepares students for the FAA Commercial Pilot written exam. PREREQUISITE: AVIA 111 or instructor's permission.

### AVIA 220 (5)

#### Flight Instructor Ground School

Prepares students to pass the FAA fundamentals of instructing, basic ground instructor, advanced ground instructor and flight instructor-airplane written tests. Covers aviation instruction methods, the learning process, elements of effective

teaching and lesson planning. Also covers aerodynamics, aircraft systems, aviation weather, flight maneuvers and navigation. PREREQUISITE: AVIA 111, 216 and 218.

### AVIA 221 (2)

#### FAA Written Test Preparation for ATP/Dispatch

Prepares students for the FAA's written test for either the Airline Transport Pilot certificate or Dispatcher certificate. Focuses on aircraft performance, weight and balance, weather, and appropriate federal regulations.

### AVIA 229 (5)

#### Unmanned Aerial Vehicle Operations

Students demonstrate and apply what they have learned in previous courses by conducting simulated and real life flight missions in the field. PREREQUISITE: AVIA 129.

### AVIA 248 (2)

#### Helicopter Pilot Instrument Flight 3

Qualifies students to obtain and/or update skills and knowledge necessary for pilot flight proficiency requirements. A local authorized flight school will provide all in-flight instruction.

### AVIA 254 (2)

#### Helicopter Pilot Instructor Flight 3

Qualifies students to obtain and/or update skills and knowledge necessary for pilot flight proficiency requirements. A local authorized flight school will provide all in-flight instruction.

### AVIA 258 (2)

#### Professional Pilot Instructor Flight 2

Qualifies students to obtain and/or update skills and knowledge necessary for instructor pilot flight proficiency training. A local authorized flight school will provide all in-flight instruction.

### AVIA 259 (2)

#### Professional Pilot Instrument Flight 3

Qualifies students to obtain and/or update skills and knowledge necessary for instrument flight proficiency. A local authorized flight school will provide all in-flight instruction.

### AVIA 264 (2)

#### Complex Aircraft Qualification

Qualifies students to obtain and/or update skills and knowledge necessary for pilot flight proficiency requirements. A local authorized flight school will provide all in-flight instruction.

### AVIA 265 (10)

#### Airline Dispatch

Teaches practical dispatching for airline and corporate operations, as well as preflight, in-flight and postflight duties. Covers federal aviation regulations, meteorology, navigation, large aircraft weight/balance, performance, systems, and communications. Also covers air traffic control procedure, and pilot departure and arrival procedures. PREREQUISITE: (AVIA 270 or AVIA 281) and AVIA 123 and AVIA 216; or instructor's permission.

**AVIA 267 (5)**  
**International Flight Planning and ETOPS**

Covers air carrier flight planning to points outside the United States, Federal Aviation Regulations (Part 121) and International Civil Aviation Organization regulations (ICAO), flight planning practice using ICAO forms, as well as extended two-engine overwater operation procedures (ETOPS), and routing, fuel, equipment and weather requirements. PREREQUISITE: AVIA 265 or concurrent enrollment; or instructor's permission.

**AVIA 270 (5)**  
**Air Traffic Control Fundamentals**

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

**AVIA 281 (5)**  
**Air Traffic Control 1**

Introduces radar and non-radar air traffic control, flight data processing, aircraft communication, FAA separation standards, controller techniques, and airspace management. Covers computer simulation of ATC problems. PREREQUISITE: AVIA 216 or 225; or concurrent enrollment or instructor's permission.

**AVIA 282 (5)**  
**Air Traffic Control 2**

Covers ATC procedures in terminal ATC environments for controllers and pilots. Emphasizes proper radio communications procedures, terminal ATC radar and non-radar separation and sequencing, correct application of applicable terminal ATC Operational rules and regulations for controllers and correct application of FAR and AIM rules and procedures for pilots. PREREQUISITE: AVIA 281 with a grade of 3.0 or higher; or instructor's permission.

**AVIA 284 (1)**  
**ATC Radar Lab**

Focuses on ATC radar operations including radar procedure applications and FAA radar operational methods and techniques. PREREQUISITE: AVIA 281 or AVIA 282; and instructor's permission.

**AVIA 286 (5)**  
**Air Traffic Controllers 3-Enroute ATC**

Expands on the foundation of basic control procedures students learned in AVIA 281, and focuses on students aspiring to become air traffic controllers. PREREQUISITE: AVIA 281 and 282 with a grade of 3.0 or higher; or instructor's permission.

**AVIA 300 (3)**  
**Certified Flight Instructor Ground School**

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

**AVIA 316 (5)**  
**Advanced Instrument Ground School**

Advanced instrument procedures knowledge including TERPS, expansion on topics covered in next gen operations and pilot techniques for advanced instrument flight with special emphasis on safety and LOFT skills.

**AVIA 320 (3)**  
**Multi-Engine, 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 and Line Oriented Flight Training (LOFT) procedures, methods and skills. PREREQUISITE: AVIA 111, AVIA 211, AVIA 216, and AVIA 218; or instructor's permission.

**AVIA 330 (3)**  
**Certified Flight Instructor-Multi-Engine, Turbine and Advanced Cockpit Technologies Ground School**

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

**AVIA 360 (5)**  
**General Aviation 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: AVIA 111 and AVIA 218; or instructor's permission.

**AVIA 370 (5)**  
**Aviation Safety Management System**

Covers FAA Safety Management System model and case studies to develop understanding of FAA SMS methodology and procedures. Case studies cover different aspect of SMS risk assessment and mitigation for aviation areas including safety risk analysis, solution options and stakeholder participation process.

**AVIA 375 (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.

**AVIA 380 (5)**  
**Aviation Business Management and Marketing**

Covers challenges operating an aviation business with emphasis on marketing to the aviation Industry that present unique challenges and opportunities in the business environment. These challenges are due to the variety of customers and markets that an airport management team must address to become and remain a viable business entity while supporting surrounding communities and industries.

**AVIA 385 (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.

**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.

**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.

**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.

## 118 Course Descriptions

### AVIA 490 (3) 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.

#### Aviation-Flight (FLT)

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

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

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

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

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

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

FLT 112	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Type	Training Time (in hours)	Hourly Rate	Hourly Rate
Ground	62	\$45.00	20	\$75.00
Pre/Post Flight Discussion	6.5	\$45.00	8	\$75.00
Dual Flight	11	\$171.00	15	\$178.00
Solo Flight	8.5	\$126.00		
Stage Check	3	\$236.00		

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FLT 212	Crest Airpark Flight Training		Galvin Flight Training, LLC.	
	Training Type	Training Time (in hours)	Hourly Rate	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	9.5	\$180.00	11	\$218.00
Stage Check	1.5	\$245.00		

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

FLT 261	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Ground	15	\$55.00
Pre/Post Flight Discussion	6	\$55.00
Dual Flight	13.5	\$300.00
Stage Check Flight	1.5	\$305.00

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

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

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

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

Qualifies students to obtain skills and knowledge necessary to meet flight proficiency and earn FAA Instrument rating under the flight school's approved training course outline and Title 14 of the Code of Federal Rules Part 141 requirements for Instrument Rating. This training must be accomplished at the appropriate authorized flight school providing all in-flight instruction. The Department of Veteran Affairs will only pay for the minimum number of flight hours that are indicated in the approved training course outline. Those hours are posted on the Green River College website. The chart below represents the number of hours and flight fees approved for VA education benefits. Flight fees are subject to change. Additional fee of \$1,100.00.(NR)

FLT 263	Classic Helicopter Corporation	
Training Type	Training Time (in hours)	Hourly Rate
Pre/Post Flight Discussion	5	\$55.00
Dual Flight	10	\$300.00
Stage Check Flight	2	\$305.00



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

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

<b>FLT 271 Classic Helicopter Corporation</b>		
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	\$245.00
Stage Check Flight	1.5	\$305.00

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

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

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

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

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

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

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

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

<b>FLT 281 Classic Helicopter Corporation</b>		
Training Type	Training Time (in hours)	Hourly Rate
Ground	20	\$55.00
Pre/Post Flight Discussion	5	\$55.00
Dual Flight	11.5	\$300.00
Stage Check Flight	1.5	\$305.00

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

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

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

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

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

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

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

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

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

### FLT 312 Certified Flight Instructor-Flight 2 (1)

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

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

### FLT 321 Multi-Engine Operations Flight (1)

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

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

### FLT 331 Multi-Engine Instructor Rating (2)

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

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

### FLT 338 Instrum Instruc Rating (1)

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

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

**Basic Education (BASIC)**

**BASIC 020 (1-2)**  
**Academic Orientation and Planning**

Prepares basic skills students for success in their program. Students explore learning style preferences, set meaningful goals, and prepare for their basic skills courses. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**BASIC 022-026 (1-12)**  
**High School Equivalency Test Preparation for Bilingual Students Level 2-6**

Provides instruction in basic reading, writing, critical thinking, and math to help students acquire fundamental academic, vocational and adult life skills. Up to 49% of instruction will be delivered in Spanish. Prepares students to take either the Spanish or English version of the high school equivalency test. PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no-credit course.

**BASIC 032 (1-15)**  
**Adult Basic Education Level 2**

Provides instruction in basic reading, writing, critical thinking, and math to help students acquire fundamental academic, career and adult life skills. PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no-credit course.

**BASIC 033 (1-15)**  
**Adult Basic Education Level 3**

Provides instruction in basic reading, writing, critical thinking, and math to help students acquire fundamental academic, career and adult life skills. PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no-credit course.

**BASIC 034 (1-15)**  
**Adult Basic Education Level 4**

Provides instruction in basic reading, writing, critical thinking, and math to help students acquire fundamental academic, career and adult life skills. PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no-credit course.

**BASIC 053 (1-5)**  
**Adult Basic Math**

Students learn to easily select and apply the knowledge, skills, and strategies to independently accomplish well-defined and structured math tasks in a range of comfortable and familiar settings using whole numbers, decimals, and percents. PREREQUISITE: Appropriate placement score on CASAS math assessment and instructor's permission. This is a pass/no-credit course.

**BASIC 054 (2-5)**  
**Problem Solving for the Math High School Equivalency Test I**

Prepares students for the high school equivalency math test by teaching them to understand, analyze, evaluate, and solve the type of math problems presented on the high school equivalency test. Specifically, students study basic concepts in problem solving with basic geometry and measurement, ratio and proportion, probability, and elementary algebra. PREREQUISITE: instructor's permission or a grade of "P" in BASIC 053. This is a pass/no-credit course.

**BASIC 056 (1-5)**  
**Adult Basic Reading 2**

Teaches students to quickly and accurately read and comprehend words and word groups in multiple pages of basic text to independently accomplish basic, well-defined and structured reading activities in a range of comfortable and familiar settings. Students determine the reading purpose, select reading appropriate strategies, monitor comprehension and adjust strategies, analyze information and reflect on its underlying meaning, and integrate it with prior knowledge to address reading purpose. PREREQUISITE: Appropriate placement score on ABE CASAS reading assessment; and instructor's permission.

**BASIC 058 (2-5)**  
**Problem Solving for the Math High School Equivalency Test**

Prepares students for the high school equivalency math test by teaching them to understand, analyze, evaluate, and solve the type of math problems presented on the high school equivalency test. Specifically, students study basic concepts in problem solving with basic geometry and measurement, ratio and proportion, probability, and elementary algebra. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**BASIC 059 (1-5)**  
**Adult Basic Writing**

Students learn to write simple narrative, informative, or expressive texts of a paragraphs and steps/instructions/commands. Students independently accomplish well-defined and structured writing activities for varied audiences (self, family, workplace, teacher) in a range of comfortable and familiar settings. PREREQUISITE: Instructor's permission and appropriate COMPASS placement score. This is a pass/no-credit course.

**BASIC 060 (1-5)**  
**Adult Basic and High School Equivalency Test Preparation Writing**

Students learn to write a variety of texts that include more complex sentence structures and multiple paragraphs easily and with few errors for a wide variety of purposes (such as different kinds of expressive, persuasive and informative purposes), and independently accomplish structured and fairly complex writing in a variety of familiar and some novel settings. PREREQUISITE: Instructor's permission and appropriate COMPASS placement score. This is a pass/no-credit course.

**BASIC 061 (1)**  
**Reading in the Content Area Language Arts Fiction**

Students learn to read critically for academic purposes and prepare for the high school equivalency test. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**BASIC 062 (1)**  
**Reading in the Content Area Social Studies**

Students learn to read social studies materials critically for academic purposes and to prepare for the high school equivalency test. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**BASIC 063 (1)**  
**Reading in the Content Area Science**

Students learn to read science materials critically and apply, analyze, and evaluate the materials for academic purposes and to prepare for the high school equivalency test. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**BASIC 064 (1)**  
**Reading in the Content Area Nonfiction**

Students learn to read nonfiction materials critically for academic purposes and to prepare for the high school equivalency test. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**BASIC 065 (1)**  
**Reading in the Content Area Mathematics**

Students learn to read and evaluate materials relating to math instruction and problem solving. Prepares students for the math portion of the high school equivalency tests and for academic education. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**BASIC 070 (12)**  
**Workplace and Computer Basics**

Focuses on workplace and computer skills, job search and employability skills, and basic reading, writing, and math skills. Appropriate for students who want to improve their employability and prepare for high school equivalency test. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**BASIC 072-074 (1-10)**  
**Basic Skills Review Level 2-4**

For students who need to study in only one or two basic areas. Students study for shorter periods of time, and remain only until their basic skills goals are met. PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no-credit course.

**BASIC 075 (1-15)**  
**Basic High School Equivalency Test Preparation**

Helps students master the skills in writing, critical thinking, social studies, science, reading and mathematics to pass the high school equivalency test. PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no-credit course.

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### **BASIC 076 (1-15)** **Advanced High School Equivalency Test Preparation**

Helps students master the skills in writing, critical thinking, social studies, science, reading and mathematics to pass the high school equivalency test. PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no-credit course.

### **BASIC 094-098 (1-12)** **Special Topics - Adult Basic Education 2-6**

Course content varies each time it is offered. Content may include ABE reading, writing, and math skills for specific content areas such as an integrated class with a career or technical program. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

## **Biology (BIOL)**

### **BIOL& 100 (5)** **Survey of Biology**

Presents fundamental topics from all areas of modern biology including the environment, ecology, physiology and cell biology to non-biology majors. Uses examples from all the kingdoms of life. PREREQUISITE: Eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

### **BIOL 103 (5)** **Introduction to Botany**

Presents fundamentals of plants at the cellular, organism, and population levels to non-biology majors. Covers plant structure and function, genetics, photosynthesis, ecological principles, and their inter-relationships. Satisfies a lab or natural science requirement for AA degree.

### **BIOL 110 (5)** **Northwest Ecology**

Presents the diversity, characteristics, and interactions of terrestrial, freshwater, and marine organisms, especially as they relate to community and ecosystem sustainability of the Pacific Northwest. Satisfies a lab or natural science requirement for AA degree.

### **BIOL 125 (3-5)** **Field Studies**

Focuses on natural history, ecological and environmental topics at specific geographical areas, and involves online, classroom and field work. A reference letter is required. Students must be able to walk 3-7 miles in one day, sleep outside, and follow class and instructor guidelines. PREREQUISITE: Eligible for ENGL& 101, and instructor's permission.

### **BIOL 127 (5)** **Natural Science of Australia and New Zealand**

Focuses on the ecology of Australia and New Zealand, including ecosystems and human impact on ecosystems. Investigates the biodiversity, characteristics, and interactions of Australian flora and fauna within various habitats and ecosystems. Involves field observations and experiences. Does not meet the lab requirement. PREREQUISITE: Enrollment in Australia Study Abroad Program and eligible for ENGL& 101. Satisfies a natural science requirement for AA degree.

### **BIOL 140 (1)** **Field Trips in Biology**

Explores various biological ecosystems of the Pacific Northwest. Locations of the field trips vary from year to year. PREREQUISITE: Eligible for ENGL& 101 and instructor's permission. Satisfies an activity requirement for AA degree.

### **BIOL& 160 (5)** **General Biology with Lab**

Introduces major concepts in cell biology, including science process, cell biochemistry, cell physiology and structure, molecular biology, genetics, and evolution. Course is a prerequisite for professional health-science programs. Format includes group work in a laboratory setting. Intended for health science majors. Strongly recommend MATH 097 or higher and CHEM& 121. PREREQUISITE: ENGL& 101 with a grade of 2.0 or higher. Satisfies a lab or natural science requirement for AA degree.

### **BIOL 177 (1-12)** **Biology Work Experience**

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171; and eligible for ENGL& 101; and instructor's permission.

### **BIOL 194 (1-5)** **Special Topics-Biology 1**

Focuses on topics such as bird study, local plants, and environmental issues such as timber management and pollution in Puget Sound. Instructor lectures, leads class and group discussion and readings. May be repeated when a different topic is presented. PREREQUISITE: Eligible for ENGL& 101.

### **BIOL 195 (1-4)** **Special Topics-Biology 2**

A lab component that may be linked to BIOL 194. Focuses on topics such as bird study, local plants, and environmental issues such as timber management and pollution in Puget Sound. PREREQUISITE: Eligible for ENGL& 101.

### **BIOL& 211 (6)** **Majors Cellular**

Helps students develop an understanding of the chemical basis of life, cell structure and function, cellular respiration, photosynthesis, cell division, mitosis/meiosis, principles of inheritance, molecular genetics, DNA technology, and natural selection; interpret and evaluate biological information; and understand science as a process. For students planning to take advanced biology courses and/ or completing pre-professional programs. PREREQUISITE: CHEM& 131 or CHEM& 163; and ENGL& 101 or instructor's permission. Satisfies a lab or natural science requirement for AA degree.

### **BIOL& 212 (6)** **Majors Animal**

Surveys the animal kingdom in the context of evolution, taxonomic classification, fundamental physiology, and fundamental ecology. Focuses on selected representatives of the animal kingdom. Laboratory portion of this class corresponds to selected lecture topics, and provides hands-on experience. PREREQUISITE: BIOL& 211 and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

### **BIOL& 213 (6)** **Majors Plant**

Covers the phylogenetic relationships of flowering plants, photosynthesis, plant structure and function, water and mineral nutrition, control of growth and development, and animal and plant ecology. Presents topics using a problem solving approach to plant biology through observation and discussion. Stresses independent laboratory work. Successful students apply their understanding of the principles taught to new situations. PREREQUISITE: BIOL& 211 and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

### **BIOL& 241 (5)** **Human Anatomy and Physiology 1**

First of a two-quarter sequence covering the study of human structure and function. Includes the study of cells, tissues and the integumentary, skeletal, muscular and nervous systems. Explores mechanisms of common human disease processes. Laboratory component includes anatomical studies using microscopy, palpation, and dissection and the study of physiological concepts via experimentation. Prepares transfer students for careers in health profession fields. PREREQUISITE: Eligible for ENGL& 101; and AP 104 or BIOL& 160 or BIOL& 211, all with a grade of 2.0 or higher; or instructor's permission. Satisfies a lab or natural science requirement for AA degree.

### **BIOL& 242 (5)** **Human Anatomy and Physiology 2**

Second of a two-quarter sequence covering the study of human structure and function. Includes the study of endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Explores mechanisms of common human disease processes. Laboratory component includes anatomical studies using microscopy, palpation, and dissection and the study of physiological concepts via experimentation. Prepares transfer students for careers in health professions. PREREQUISITE: BIOL& 241 with a minimum grade of 2.0 and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

### **BIOL& 260 (5)** **Microbiology**

Introduces the characteristics and activities of microorganisms with emphasis on the role of microorganisms in medicine, the environment and industry. Topics include microbial classification, growth, metabolism, the role of microorganisms in disease, and immune responses of the host. Laboratory portion includes culture, identification and control of selected microorganisms. PREREQUISITE: AP 104, BIOL& 212, or BIOL& 242; and eligible for ENGL& 101; or instructor's permission. Satisfies a lab or natural science requirement for AA degree.

**BIOL 298 (1-5)**  
**Independent Study-Biology**  
 Independent study of selected topic(s) in various areas of the biological sciences. Student and instructor determine topics and scope. Successful students apply their understanding of the principles taught to new situations. PREREQUISITE: Eligible for ENGL& 101 and instructor's permission.

**Business Administration (BA)**

**BA 145 (5)**  
**Business Computation**  
 Sharpens the computational skills of students preparing to enter business employment. Provides a thorough review of basic arithmetic operations and their application to typical business problems. Also provides broad consumer education covering topics such as bank reconciliations, discounts, markups and markdowns, payroll, simple and compound interest and present value. PREREQUISITE: Eligible for MATH 062, or BTAC 110 with a grade of 2.0 or higher; or instructor permission.

**BA 146 (3)**  
**Intermediate Business Math**  
 Study of simple and compound interest, negotiable instruments, discounting notes, applying cash discounts and markup, the mathematics of payroll and payroll procedures, and calculation of adjusted gross income for tax purposes. PREREQUISITE: B A 145 or special placement.

**BA 177-179 (1-12)**  
**Business Administration Work Experience 1-3**  
 Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.

**Business Management (BUS)**

**BUS& 101 (5)**  
**Introduction to Business**  
 Students sample the functional operations of any business, such as accounting, organization, personnel management, marketing, and social responsibility. Students also play the role of investor to experience the market process as it operates through contemporary financial institutions. A survey of the evolution of free market and command economies leads to understanding relationships of business with labor and government in today's mixed economy. PREREQUISITE: Eligible for ENGL 099. Satisfies a social science requirement for AA degree. RECOMMEND: Writing skills.

**BUS 103 (5)**  
**Business Leadership**  
 Introduces and develops skills necessary for effective leadership. Topics include key traits of strong leaders, motivation of others, coaching skills, negotiation, conflict resolution, team management, diversity, and change management. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies an activity requirement for AA degree.

**BUS 121 (5)**  
**Marketing Fundamentals**  
 Examines how to build a successful marketing strategy. Students learn to understand consumer behavior, identify target market segments, select distribution channels, price for profitability, and select promotional tactics. Emphasizes the integration of these marketing functions into an effective plan.

**BUS 159 (5)**  
**Professional Selling**  
 Focuses on the interpersonal skills needed for success in a variety of sales and account management positions. Students develop skills in effective communication and relationship building, prospecting, sales presentations, and closing the sale. Students also develop skills that have a wide range of personal and professional applications.

**BUS 164 (5)**  
**Entrepreneurship and Small Business Management**  
 Introduces the fundamentals of small business startup and growth. Topics include development of business concept, strategic planning, marketing, financing, and an overview of international business. Examines important principles for businesses of any size. PREREQUISITE: Eligible for ENGL 099 or instructor's permission.

**BUS 166 (5)**  
**Human Relations and Work Readiness**  
 Develops personal skills necessary for success in business. Topics include goal setting, time management, teamwork, communication, business etiquette, and making a positive impact in the workplace. Focuses on application of skills to maximize personal and professional effectiveness.

**BUS 173 (5)**  
**Basic Financial Management**  
 Provides an introduction to financial management from both a personal and business perspective. Includes cash flow management, planning for major expenditures, the risks and returns of various investment vehicles, and the costs/benefits of using debt. PREREQUISITE: B A 145 or instructor's permission.

**BUS 175 (1)**  
**Career Management**  
 Students examine their personal and professional goals; learn about their strengths and weaknesses; and assemble a job portfolio consisting of cover letter, resume, and professional recommendations. Students build their professional network through informational interviews.

**BUS 177 and 180 (1-6)**  
**Supervised Work Experience 1 and 2**  
 Workplace experience allows students to apply skills learned in the Business Management program. Internships approved by faculty coordinator can be paid or unpaid. Variable credit based on hours in internship. PREREQUISITE: Completion of at least 15 credits in Business Management and instructor's permission.

**BUS 181 (5)**  
**Introduction to International Business**  
 Survey of topics related to international business and trades. Introduces students to the international business environment, trade theories, the basics of international monetary and political systems, and the effects of legal, political and cultural forces on the global economy. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

**BUS 184 (5)**  
**International Business Strategies**  
 Practical application of international business concepts and strategies. Students complete case studies and projects related to sales, sourcing, and management in a global environment. PREREQUISITE: BUS 181 or instructor's permission.

**BUS 186 (5)**  
**International Marketing**  
 Examines marketing, advertising, packaging, branding and logistics issues impacting global markets. Students develop strategies addressing topics such as global markets, global advertising and marketing, and cultural dynamics in global markets. Introduces students to a marketing plan designed for global markets. PREREQUISITE: BUS 181 or instructor's permission.

**BUS 194-196 (5)**  
**Special Topics-Business Management 1-3**  
 Students study and train to meet established needs in business, sales, and supervision practices. Course content varies each time it is offered. Intended to meet the needs of each student. PREREQUISITE: Instructor permission.

**BUS& 201 (5)**  
**Business Law and the Regulation of Business**  
 Focuses on business law and the regulation of business activities. Emphasizes contracts, the uniform commercial code, sales and secured transactions, bankruptcy, and third party contract rights. Illustrates concepts using the case method presentation approach. PREREQUISITE: READ 094; or eligible for READ 104; and POLS& 200; or instructor's permission. Satisfies a social science requirement for AA degree.

**BUS 202 (5)**  
**Introduction to Project Management**  
 Examines how to manage projects by planning, prioritizing, scheduling, budgeting, and monitoring the project. Emphasizes common tools and methods used by project managers to complete projects on time and on budget.

**BUS 257 (5)**  
**Customer Service Strategies**  
 Explores customer service as a competitive advantage in business and personal career development. Students learn to identify customer needs, solve problems, handle conflict, and exceed customer expectations.

## 126 Course Descriptions

### **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 164, 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 MATH& 141 or MATH 147; or instructor's permission. RECOMMEND: MATH 256.

### **BUS 335 (5)** **Integrated Marketing Communications**

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

### **BUS 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 the BAS in Marketing and Entrepreneurship 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 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; or instructor's permission. RECOMMEND: ENGR& 104.

### **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; 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; 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 MATH& 141 or MATH 147 and BUS 340; 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 335; or instructor's permission. RECOMMEND: BUS 121.

### **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 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 Banking**

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, networking, personal marketing materials, effective use of social media, and involvement in targeted professional associations. PREREQUISITE: Admission into the BAS in Marketing and Entrepreneurship program; or instructor's permission.

### **BUS 460 (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 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 460, or instructor's permission.

## **Business Technologies and Administrative Careers (BTAC)**

### **BTAC 080 (2)** **Keyboarding**

Uses keyboards to record words and data in the business office, as well as in personal communications. Enables a student to develop touch-keyboarding (typewriting) skills in a minimal amount of time. Introduces alphabet, number, and symbol keys to students with little or no keyboarding skills.

**BTAC 090 (5)**  
**Office Accounting**

General presentation of financial accounting designed to meet the needs of the non-accountant in business. Develops fundamental accounting principles and applications from initial journal entries through the preparation of financial statements for service and merchandising firms. Topics include the accounting equation, the accounting cycle in service and merchandising firms, special journals, cash transactions, payroll, accounting professionals, and computerized accounting systems. RESTRICTION: Accounting majors are not eligible for this class.

**BTAC 100 (5)**  
**Fundamentals of Computers**

Introduction of computers for home and business applications. Course content includes history, terminology, word processing, spreadsheets, databases, presentations, desktop information management, and (OLE) Object Linking and Embedding. Covers an overview of the Internet. Also provides a foundation for all Business Division computer courses. A minimum typing speed of 20 wpm is recommended. PREREQUISITE: Eligible for READ 094.

**BTAC 100.1 (2)**  
**Computer Fundamentals: Internet**

Self-paced course covering the following concepts: the Internet, using Microsoft Internet Explorer to access the World Wide Web, and using the more popular search engines. Recommended for students who are self-motivated, computer-literate, and self-disciplined. Presented as an independent learning environment with no instructor present.

**BTAC 100.2 (2)**  
**Computer Fundamentals: Word**

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

**BTAC 100.3 (2)**  
**Computer Fundamentals: Excel**

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

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

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

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

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

**BTAC 101 (5)**  
**Beginning Keyboarding**

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

**BTAC 102 (5)**  
**Intermediate Keyboarding**

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

**BTAC 103 (5)**  
**Advanced Keyboarding**

Builds on the keyboarding skills and concepts developed in BTAC 102. Continues emphasis on speed and accuracy development on a computer keyboard. Students use a word processing program to further refine formatting skills on a computer. Students enhance their ability to make decisions and to work independently. RECOMMEND: A minimum typing speed of 30 wpm. PREREQUISITE: BTAC 102 or equivalent and BTAC 112, all with a grade of 2.0 or higher.

**BTAC 107 (4)**  
**Typing Speed and Accuracy 1**

For students who know the keyboard and would like extensive speed and accuracy skill development. Emphasizes proper technique, rhythm development, straight-copy skill, and accuracy. RECOMMEND: Knowledge of keyboard and a minimum typing speed of 30 wpm. This is a pass/no-credit course.

**BTAC 108 (4)**  
**Typing Speed and Accuracy 2**

For students who know the keyboard and would like intensive speed and accuracy skill development. Emphasizes proper technique, rhythm development, straight-copy skill, and accuracy improvement. PREREQUISITE: BTAC 107. This is a pass/no-credit course.

**BTAC 109 (3)**  
**Legal Terminology**

Equips students for further legal studies such as legal transcription, legal office work, paralitigation, and/or court reporting technologies. Emphasizes Latin as a basis for many legal terms. PREREQUISITE: Eligible for READ 094.

**BTAC 110 (5)**  
**Business Math Applications**

Provides a thorough review of basic arithmetic fundamentals and their application to typical business problems. Teaches students to solve business problems using an electronic desktop calculator and a computer, and to operate a ten-key computer keypad by touch. Includes a unit in Excel. PREREQUISITE: Eligible for MATH 072.

**BTAC 111 (5)**  
**Introduction to Computer Literacy**

Introduction to the personal computer in a small office/home setting. Includes terminology, file management, word processing, e-mail, the Internet, Green River's Learning Management System, and an introduction to information literacy. No previous computer experience required. RECOMMEND: Eligible for READ 094. Satisfies an activity requirement for AA degree.

**BTAC 112 (5)**  
**Beginning Word**

Introduces the basic skills of Microsoft Word. Focuses on creating, saving, and printing a document; editing and managing documents; formatting characters and paragraphs; using spellchecker, autocorrect, thesaurus, word count and grammar tools; conducting find and replace; using autotext; manipulating tabs, merging documents, creating headers, footers, footnotes and end notes. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; or instructor's permission. RECOMMEND: A minimum typing speed of 30 wpm.

**BTAC 115 (1)**  
**Professional Image Building**

Students learn to project a professional and successful image in today's competitive workplace. Discusses business wardrobe, color analysis and design, hygiene (skin care and hairstyle), self-esteem, professional etiquette and the techniques for a successful interview. Satisfies an activity requirement for AA degree. This is a pass/no-credit course.

**BTAC 117 (2)**  
**Exploring PowerPoint**

Students learn to create and deliver easy, effective, professional-looking presentations using Microsoft PowerPoint. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher, or instructor's permission.

**BTAC 118 (5)**  
**Basics for Online Education**

Introduces students to online issues such as Internet access, file management, Word documents attachments, and effective email communication. This is a pass/no-credit course.

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### **BTAC 119 (7)** **MOS Core and Expert Certification Preparation**

Prepares users to take the Microsoft MOS core and expert certification tests in Microsoft Access, Excel, Word and PowerPoint. RECOMMEND: A minimum typing speed of 30 wpm. This is a pass/no-credit course.

### **BTAC 119.1 (1)** **Prep Test 1-Microsoft Certification Access**

For users of Microsoft Access for Windows who are preparing to take the Microsoft MOS core certification test. RECOMMEND: A minimum typing speed of 30 wpm. This is a pass/no-credit course.

### **BTAC 119.2 (1)** **Prep Test 2-Microsoft Certification Access**

For users of Microsoft Access for Windows who are preparing to take the Microsoft MOS expert certification test. RECOMMEND: A minimum typing speed of 30 wpm. This is a pass/no-credit course.

### **BTAC 119.3 (1)** **Prep Test 1-Microsoft Certification Excel**

For users of Microsoft Excel for Windows who are preparing to take the Microsoft MOS core certification test. RECOMMEND: A minimum typing speed of 30 wpm. This is a pass/no-credit course.

### **BTAC 119.4 (1)** **Prep Test 2-Microsoft Certification Excel**

For users of Microsoft Excel for Windows who are preparing to take the Microsoft MOS expert certification test. RECOMMEND: A minimum typing speed of 30 wpm. This is a pass/no-credit course.

### **BTAC 119.5 (1)** **Prep Tests - Microsoft Certification PowerPoint**

For users of Microsoft PowerPoint for Windows who are preparing to take the Microsoft MOS core and expert certification test. RECOMMEND: A minimum typing speed of 30 wpm. This is a pass/no-credit course.

### **BTAC 119.6 (1)** **Prep Test 1-Microsoft Certification Word**

For users of Microsoft Word who are preparing to take the Microsoft MOS core certification test. RECOMMEND: A minimum typing speed of 30 wpm. This is a pass/no-credit course.

### **BTAC 119.7 (1)** **Prep Test 2-Microsoft Certification Word**

For users of Microsoft Word for Windows who are preparing to take the Microsoft MOS expert certification test. RECOMMEND: A minimum typing speed of 30 wpm. This is a pass/no-credit course.

### **BTAC 120 (5)** **Introduction to Transcription**

Students develop transcription and editing skills using pre-recorded materials. Emphasizes production of mailable transcripts with specific attention to the placement, arrangement, correct spelling, and grammar of letters, memos, tables, and reports. PREREQUISITE: BTAC 102 with a grade of 2.0 or higher; or instructor's permission. RECOMMEND: A college level composition course.

### **BTAC 121 (5)** **Introduction to legal Transcription**

Develops legal transcription and editing skills using pre-recorded materials. Gives students a comprehensive background in the creation, purpose, use, and procedures of legal documents in the specialty areas of litigation, wills and probate, and family law issues. Emphasizes production of mailable documents with attention to the rules of spelling, grammar, and punctuation to meet the NALS requirements. Students increase their legal terminology knowledge and develop excellent research skills. PREREQUISITE: BTAC 102 and BTAC 109 with a grade of 2.0 or higher; or instructor's permission. RECOMMEND: A college-level composition course.

### **BTAC 122 (5)** **Introduction to Medical Transcription**

Develops medical transcription and editing skills using pre-recorded materials. Emphasizes production of mailable transcripts with attention to placement, arrangement, correct spelling, and grammar of letters, medical documents, and laboratory reports to meet AAMT standards. PREREQUISITE: BTAC 102 and ENGL 108, both with a grade of 2.0 or higher; or instructor's permission. RECOMMEND: A college level composition course.

### **BTAC 123 (5)** **Intermediate Medical Transcription**

Develops advanced medical transcription and editing skills using pre-recorded materials. Emphasizes production of mailable transcripts with attention to placement, arrangement, correct spelling, and grammar of letters, medical documents, and laboratory reports to meet AAMT standards. PREREQUISITE: BTAC 122 with a grade of 2.0 or higher; or instructor's permission. RECOMMEND: A college level composition course.

### **BTAC 124 (5)** **Advanced Medical Transcription**

Develops medical transcription production and editing skills using realistic pre-recorded materials. Emphasizes transcription of medical reports and correspondence to meet the entry-level standards for accuracy and production speed to meet AAMT standards. PREREQUISITE: AP 100, BTAC 112, and BTAC 123, all with a grade of 2.0 or higher.

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

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

### **BTAC 126 (2)** **Pharmaceutical Basics**

Provides an overview of pharmacological topics including the study of terminology, drug classifications, administration methods and usage. Emphasizes understanding of the action of drugs, including the absorption, distribution, metabolism and excretion of drugs from the body. Provides detailed description of chemical, generic, and brand names of drugs, as well as standards and references used in research for the preparation of medical report documentation. PREREQUISITE: Eligible for READ 104.

### **BTAC 127 (3)** **Overview of Human Diseases for Non-Clinicians**

Identifies the causes of disease and their impact on the human body. Identifies the common physiological effects of disease on body systems. Teaches the roles of multidisciplinary healthcare team in the diagnosis and treatment of disease. Covers the implications in prevention and treatment of disease. Course designed for non-clinicians. PREREQUISITE: Eligible for READ 104.

### **BTAC 129 (5)** **Intermediate Legal Transcription**

Students refine legal transcription and editing skills using prerecorded materials. Students develop a comprehensive background in the creation, purpose, use, and procedures of legal documents in the specialty areas of contracts, real estate, corporate law, bankruptcy, and appellate practice. Emphasizes production of mailable documents with attention to the rules of spelling, grammar, and punctuation to meet the NALS requirements. Students increase their legal terminology knowledge and develop excellent research skills. PREREQUISITE: BTAC 121 with a grade of 2.0 or higher.

### **BTAC 130 (5)** **Business Correspondence**

Emphasizes techniques to develop and compose psychologically-sound business messages dealing with good news, bad news, and persuasive messages. Develops skills to write a clear and well-organized business report. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; eligible for ENGL 099 and READ 104; or instructor's permission.



**BTAC 132 (5)**  
**Business Communication Applications**

Focuses on the use of the PowerPoint, Outlook and One Note applications. Includes basic and advanced concepts for each application and their usage in business. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; or instructor's permission.

**BTAC 140 (5)**  
**Records Management**

Introduces filing methods, related rules and applications for paper and electronic records management. Uses Microsoft Access extensively for lab applications. Students create appropriate electronic file structures for various record volumes. Covers filing equipment, supplies, microfilms, vital records plan, retention scheduling, and the records life cycle process. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; or instructor's permission. RECOMMEND: BTAC 185.

**BTAC 142 (5)**  
**Health Information and Delivery Systems**

Introduces the organization, financing, regulatory and delivery structures of healthcare services, providers, payers, and agencies in the U.S. Focuses on the use of data structure, content and standards, data sets and retrieval. Explains the role of Information Technology in healthcare. Addresses current issues in healthcare and the roles and functions of various healthcare professionals. PREREQUISITE: AP 100 or AP 103, BTAC 100 and BTAC 125, all with a grade of 2.0 or higher; or instructor's permission.

**BTAC 143 (5)**  
**Medical/Legal Aspects of Health Information**

Provides an overview of law and ethics in the healthcare setting including employees' and providers' duties and responsibilities. Major topics include health information systems used to identify, file, and store patient health information, patient and healthcare recordkeeping, different types of data, sources, and use and users of data. Applies the general principles of law as related to health information. Emphasizes regulations regarding protected health information, patient privacy, and patient confidentiality. PREREQUISITE: BTAC 142 with a grade of 2.0 or higher; or instructor's permission.

**BTAC 144 (5)**  
**Computer Applications in Healthcare**

Provides an overview of health informatics and examines the impact of information technology on the healthcare industry. Introduces encoding tools and computer-assisted coding software. Teaches use of practical applications using advanced word processing techniques and presentation, database, and flow chart software programs. PREREQUISITE: BTAC 142 with a grade of 2.0 or higher; or concurrent enrollment in BTAC 142; or instructor's permission.

**BTAC 145 (5)**  
**Introduction to ICD Coding**

Introduces the International Classification of Diagnosis code (ICD) diagnostic coding, the numeric classification of disease and injury, coding methodology, and guidelines. Demonstrates the importance of accuracy and specificity in code selection, acquaints students with the different forms of medical data, and lays the foundation for advanced coding and medical record analysis. Students code from both reference books and the utilization of an online based encoder. Teaches students to assign valid diagnostic codes using authentic source documents. Provides an overview of Diagnostic Groupings (DRG's) and other clinical vocabularies such as the Systematized Nomenclature of Medicine-Clinical Terms, (SNOMED-CT). PREREQUISITE: AP 100, BTAC 125, BTAC 126 and BTAC 127, all with a grade of 2.0 or higher; or instructor's permission

**BTAC 146 (5)**  
**Introduction to CPT Coding**

Introduces coding in ambulatory settings using Current Procedural Terminology (CPT), Health Care Common Procedure Coding System (HCPCS) Level 2 and ICD Procedures (ICD-9 Volume III and ICD-10-PCS). General content includes coding guidelines, and the role in healthcare reimbursement. Covers coding of basic medical and surgical services including use of modifiers, as well as ethical coding and compliance issues. PREREQUISITE: BTAC 145 with a grade of 2.0 or higher; or instructor's permission.

**BTAC 150 (5)**  
**Introduction to Windows**

Introduces Microsoft Windows graphical user interface, the preparation of text and graphics documents, and the management of windows on the desktop. Includes the customization of the Windows desktop, techniques for working with files, folders and documents, and communication with other computers through the Internet. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; or instructor's permission.

**BTAC 157 (2)**  
**Introduction to Outlook**

Focuses on the application's basic tools for sending and receiving e-mails; organizing schedules and events; making journal entries; and maintaining contact lists, to-do lists, and notes. Covers some customization. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; or instructor's permission.

**BTAC 162 (5)**  
**Introduction to Excel**

Introduces the basic skills for developing spreadsheets in Microsoft Excel. Students prepare and format worksheets, and maintain and enhance workbooks. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; or instructor's permission.

**BTAC 163 (5)**  
**Advanced Excel**

Focuses on advanced formatting and functions, creating and modifying templates and workbooks, using analysis tools, managing and auditing worksheets and workbooks, collaborating with workbooks, and using data from external sources. PREREQUISITE: BTAC 162 with a grade of 2.0 or higher; or instructor's permission.

**BTAC 170.1 (1)**  
**Beginning Keyboarding-Alphabet Keys**

Introduces alphabetic keyboard including correct finger placement and reaches. Enables students to develop touch-keyboarding skills in a minimal amount of time.

**BTAC 170.2 (1)**  
**Keyboarding-Mastering 10-Key and Symbols**

Focuses on the 10-key pad and symbols for developing efficient data-entry skills. Enables students to master the 10-key pad and symbols by touch.

**BTAC 170.3 (1)**  
**Keyboarding-Speed and Accuracy-Skill Building**

Enables students to develop skills to improve typing speed and accuracy. Reinforces touch-typing technique. RECOMMEND: Keyboarding skills.

**BTAC 171.1 (1)**  
**PowerPoint: Preparing a Presentation**

Focuses on Microsoft PowerPoint basics such as storyboard creation and presentation, managing files, and editing and enhancing the contents, applying and modifying the design, running a slide show, inserting and modifying text and images, and using the drawing tools. RECOMMEND: Keyboarding skills.

**BTAC 171.2 (1)**  
**PowerPoint: Design with Graphics and Multimedia**

Focuses on creating diagrams for processes and relationships; creating a photo album; inserting movies and sound; creating tables and charts. RECOMMEND: BTAC 171.1 and keyboarding skills.

**BTAC 171.3 (1)**  
**PowerPoint: Customize and Incorporate Web Features**

Focuses on developing and organizing content, working with color; customizing design templates; running custom slide shows; preparing presentations for web delivery. RECOMMENDED: BTAC 171.1 and keyboarding skills.

**BTAC 173.1 (1)**  
**Word: Create, Edit and Format Documents**

Focuses on Microsoft Word basics such as document formatting, document organization, text and paragraph formatting, styles.

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### **BTAC 173.2 (1)**

#### **Word: Tables and Sharing Documents**

Focuses on inserting a table, formatting a table, applying formulas to table data, inserting graphics, as well as working with document collaboration, merging documents, and using reference resources. RECOMMENDED: BTAC 173.1 and keyboarding skills.

### **BTAC 173.3 (1)**

#### **Word: Mail Merge and Other Productivity Tools**

Focuses on using templates to design documents and apply and customize themes. Teaches mail merge concepts such as label and letter creation using a database or spreadsheet data source. RECOMMEND: BTAC 173.1 and keyboarding skills.

### **BTAC 173.4 (1)**

#### **Word: Create a Newsletter**

Teaches use of Microsoft Word to design and create a newsletter, as well as working with objects and using object linking and embedding. RECOMMEND: BTAC 173.1 and keyboarding skills.

### **BTAC 173.5 (1)**

#### **Word: Creating Forms, Macros and Document Security**

Introduces creating an electronic form from a Microsoft Word template, protecting the form, and using authentication. Focuses on recording and editing macros. RECOMMEND: BTAC 173.1 and keyboarding skills.

### **BTAC 174.1 (1)**

#### **Excel: Introduction to Formulas and Functions**

Focuses on Excel basics such as creating, modifying, and improving the appearance of a worksheet, as well as entering formulas and functions to help analyze data. RECOMMEND: Keyboarding skills.

### **BTAC 174.2 (1)**

#### **Excel: Charts and Working with Large Worksheets**

Focuses on using Excel's charting feature and working with large worksheets. RECOMMEND: BTAC 174.1 and keyboarding skills.

### **BTAC 174.3 (1)**

#### **Excel as a Database**

Covers Excel's database functions, pivot tables, conditional functions, and amortization table. RECOMMEND: BTAC 174.1 and keyboarding skills.

### **BTAC 174.4 (1)**

#### **Excel: Data Consolidation and What-If Analysis**

Focuses on data consolidations, links, and formula auditing. Covers use of spreadsheets for decision making with "what-if" analysis. RECOMMEND: BTAC 174.1 and keyboarding skills.

### **BTAC 174.5 (1)**

#### **Excel: Collaboration, the Web, and Macros**

Focuses on sharing and distributing Excel data, as well as working with Excel options. Students work with Excel templates and automate tasks with macros, and the use of Internet technology to display Excel data on web pages. RECOMMEND: BTAC 174.1 and keyboarding skills.

### **BTAC 175 (1-5)**

#### **Instructor Assistant**

Students assist the instructor including working with students individually in Business Technologies and Administrative Careers classes, answering questions, doing tutorial work, and checking papers. PREREQUISITE: Instructor's permission.

### **BTAC 176.1 (1)**

#### **Access: Create and Modify a Database**

Focuses on Access objects and understanding the elements of database relationships. Also looks at table design with multiple tables. RECOMMEND: Basic knowledge of computer and keyboarding skills.

### **BTAC 176.2 (1)**

#### **Access: Use Queries to Produce Information**

Introduces users to queries using Microsoft's Access database application. Uses queries to retrieve data and extract records meeting criteria stored within the tables of a database. Students customize, analyze, and summarize query data to make decisions. RECOMMEND: Basic knowledge of computer, keyboarding, and Access skills.

### **BTAC 176.3 (1)**

#### **Access: Create and Modify Forms**

Introduces data protection to ensure data integrity, validation and reliability. Also introduces students to forms using Microsoft Access database application. Viewing the data through a form allows the user to see one record at a time, rather than many records as would be the case in the datasheet view. RECOMMEND: Basic knowledge of computer, keyboarding and Access skills.

### **BTAC 176.4 (1)**

#### **Access: Create and Modify Reports**

Introduces the user to reports using Microsoft Access database application. Reports are database objects used to sort, summarize, and output useful information. Emphasizes planning out the report in order to create professional and useful reports. Covers performing calculations in a report. RECOMMEND: Basic knowledge of computer, keyboarding, and Access skills.

### **BTAC 177-179 (1-12)**

#### **Business Technologies and Administrative Careers Work Experience 1-3**

Allows student to gain experience in full- or part-time employment directly related to their program of study. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.

### **BTAC 180 (3)**

#### **Medical Coding Professional Practice Experience**

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

### **BTAC 184 (5)**

#### **Internet and Basic Web Design**

Students apply the necessary online skills to be successful using the Internet. Topics include understanding and using the Internet, web, FTP, E-mail, HTML, web graphics, browsers, browser plug-ins, relative/absolute addressing, and other related aspects. Students produce a web site using a variety of available technologies. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; or instructor permission. RECOMMEND: BTAC 150 or IT 110.

### **BTAC 185 (5)**

#### **Introduction to Microsoft Access**

Provides students with introductory Microsoft Access database training, specifically storage of data in a logical manner for later retrieval and use in the business environment. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; or instructor's permission.

### **BTAC 186 (5)**

#### **Advanced Microsoft Access**

Focuses on advanced multi-table database design and techniques using Microsoft Access. PREREQUISITE: BTAC 185.

### **BTAC 200 (5)**

#### **Production Keyboarding**

Emphasizes preparation of business documents. Students use a word processing program to refine formatting skills on a computer. Students develop decision-making skills while improving keyboarding (typing) skills. Emphasizes speed and accuracy improvement. Students work from an unarranged copy with minimal narrative instruction. Projects include correspondence, reports, forms, and tables. Emphasizes producing error-free copy. PREREQUISITE: BTAC 103 or equivalent, and BTAC 112. RECOMMEND: A typing speed of 55 wpm.

**BTAC 201 (5)**  
**Legal Production Keyboarding**

Helps develop decision making skills and improves keyboarding (typing) and proofreading skills. Students work from an unarranged legal copy with minimal narrative instruction. Emphasizes speed and accuracy improvement, as well as legal terminology. Projects include preparation of documents commonly prepared in a legal office setting using a current word processing program. Projects include legal correspondence and documents, reports, forms, and tables. Emphasizes producing error-free copy. PREREQUISITE: BTAC 103 or equivalent, BTAC 109, and BTAC 112, all with a grade of 2.0 or higher. RECOMMEND: A typing speed of 60 wpm.

**BTAC 202 (5)**  
**Medical Production Keyboarding**

Helps develop decision making skills and improves keyboarding (typing) and proofreading skills. Students work from an unarranged medical copy with minimal narrative instruction. Emphasizes speed and accuracy improvement, as well as medical terminology. Projects include preparation of documents commonly prepared in a medical office setting using a current word processing program. Projects include medical correspondence, documents and records, reports, forms, and tables. Emphasizes producing error-free copy. RECOMMEND: A typing speed of 60 wpm. PREREQUISITE: BTAC 102, BTAC 112 and BTAC 125, all with a grade of 2.0 or higher.

**BTAC 212 (5)**  
**Computer Application for Teachers**

Assists teachers in integrating computer applications into classroom management. Uses database to generate charts for maintaining grades; a spreadsheet to produce graphs; a word processor to generate form letters; and presentation software to produce slide presentations, speaker notes, outlines, or paper printouts.

**BTAC 214 (5)**  
**Introduction to Information Security**

Introduces the multi-faceted aspects of information security: facility and hardware security, data security, human security, organizational security, network security, and Internet security. Discusses the legal and ethical issues concerning information security. Focuses on information security for business and personal use, but does not deal with specific technical security equipment. PREREQUISITE: BTAC 100 with a grade of 2.0 or higher; or instructor permission. RECOMMEND: BTAC 150 or IT 101.

**BTAC 216 (2-5)**  
**Computer Support Internship I**

Students assist Business Technologies and Administrative Careers (BTAC) instructors with computer applications and basic hardware functions. PREREQUISITE: Instructor's permission.

**BTAC 217 (2-5)**  
**Computer Support Internship 2**

Students assist Business Technologies and Administrative Careers (BTAC) instructors with computer applications and basic hardware functions. PREREQUISITE: BTAC 216 and instructor's permission.

**BTAC 218 (5)**  
**Basic Office PC Support**

Focuses on identifying and developing customer service skills while troubleshooting and resolving computer problems within a help-desk environment. Students learn troubleshooting strategies including problem identification, resolution techniques, case-management documentation and protocol. PREREQUISITE: BTAC 150 with a grade of 2.0 or higher; or instructor's permission.

**BTAC 219 (5)**  
**Basic Networking Concepts**

A basic course in the management of a local area network. Identifies the responsibilities of the network system administrator and develops necessary skills. PREREQUISITE: BTAC 150 or instructor's permission.

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

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

**BTAC 235 (5)**  
**Legal Office Procedures**

Provides a study of activities most often performed by a legal assistant. Topics include legal office environment, communication services and management, legal code of ethics, scheduling/docketing techniques, messenger services, Washington's legal court system structure, legal billing procedures, wills/probate procedures, job search and informational interview, preparation of job-ready resume/portfolio, leadership, and human relations. PREREQUISITE: BTAC 100, BTAC 102, and BTAC 109, all with a grade of 2.0 or higher. RECOMMEND: BTAC 220 or concurrent enrollment.

**BTAC 245 (5)**  
**Medical Office Procedures**

Provides a study of activities most often performed by medical administrative staff. Topics include medical office environment, communication services and responsibilities, medical records and file management, medical code of ethics, scheduling techniques and computerized patient scheduling/billing software, medical billing procedures, job search and informational interview, preparation of job-ready resume/portfolio and cover letter. PREREQUISITE: Eligible for READ 104.

**BTAC 246 (5)**  
**Intermediate Medical Coding**

Covers case studies using complex code assignment with the International Classification of Diseases (ICD), Current Procedural Terminology (CPT), and Healthcare Common Procedural Coding System (HCPCS) Level II codes. Discusses implications of Diagnostic Related Groups (DRGs) and their relationship to coding assignment and finances. Covers theory and practice in coding problem-solving, data, quality control, and use of ICD and CPT computer encoder. PREREQUISITE: BTAC 145 and BTAC 146, both with a grade of 2.0 or higher; or instructor's permission.

**BTAC 248 (5)**  
**Healthcare Reimbursement Methodology**

Provides an in-depth overview of reimbursement methods and procedures used in the United States including many location based health insurance prospective payments systems (HIPPS). Study of the entire claims process from patient visit, procedure and diagnostic coding to payment using a variety of billing methods: Centers for Medicare and Medicaid Services forms (CMS), uniform billing (UB) forms and electronic claims submission. Students learn to define billing processes for commercial, federal and managed care insurance plans. Covers the importance of coded data, compliance, health information and charge master maintenance including an overview of fee schedules. PREREQUISITE: BTAC 142, BTAC 143, BTAC 145 and BTAC 146, all with a grade of 2.0 or higher; or instructor's permission.

**BTAC 250 (5)**  
**Office Relations and Procedures**

Provides instruction and activities directed toward technology, communication, and human relations skills of the administrative support professional. Topics include organizational structures, virtual offices, teamwork, anger, stress and time management; ethics, diversity, and sexual harassment; communication essentials, customer service, postal services, telecommunications, meetings and travel, job search, and leadership elements. PREREQUISITE: BTAC 100 and BTAC 130, both with a grade of 2.0 or higher; and eligible for ENGL& 101; or instructor's permission.

**BTAC 255 (5)**  
**Advanced Word**

Focuses on using bookmarks and hyphenation; creating annotations and macros; adding borders, frames, and pictures; using WordArt, and Equation Editor; creating tables and charts; formatting text into columns; sorting text; formatting with styles; creating outlines, fill-in forms, tables of contents and indexes. PREREQUISITE: BTAC 112 with a grade of 2.0 or higher; or instructor's permission. RECOMMEND: A typing speed of 30 wpm.

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### **BTAC 257 (5)**

#### **Intermediate ICD Coding**

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

### **BTAC 258 (5)**

#### **Intermediate CPT/HCPCS Coding**

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

### **BTAC 259 (3)**

#### **Medical Encoder**

Provides hands-on code look-up and verification using logic-based computerized encoding systems with coding reference software for ICD, CPT, HCPCS classification systems. In addition, students are exposed to Computer Assisted Coding (CAC) using Natural Language Processing (NLP) software. PREREQUISITE: BTAC 145 and BTAC 146 with a grade of 2.0 or higher; or instructor's permission.

### **BTAC 266 (5)**

#### **Inside Microsoft Office**

Focuses on the use of advanced Microsoft Office applications including object linking and embedding (OLE) and the integration of applications. Enhances prior application skills. These skills culminate in a professional PowerPoint group presentation that also may incorporate Word, Excel, and Access concepts. PREREQUISITE: BTAC 100 or IT 101, with a grade of 2.0 or higher; or instructor's permission. RECOMMEND: BTAC 112, BTAC 132, BTAC 150, BTAC 162, and BTAC 185.

### **BTAC 297 (1-5)**

#### **Independent Study-Business Technologies and Administrative Careers**

Includes special courses and topics designed for students such as individual learning in the Business Technologies and Administrative Careers programs. Students may register for a contracted learning experience by obtaining permission from a Business Technologies and Administrative Careers (BTAC) faculty advisor. PREREQUISITE: Instructor's permission.

## **Carpentry Technology (CARP)**

### **CARP 113 (1-13)**

#### **Residential 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)**

#### **Residential Wall and Roof Framing**

A competency-based course. Major areas of study will be residential 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)**

#### **Residential Exterior and Interior Finish**

A competency-based course. Major areas of study include residential 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 153 (5)**

#### **Home and Performance Testing**

Designed to meet current need for Home Energy Auditors/Analysts. Areas of study include 1) building performance principles and issues, 2) energy consumption and conservation, 3) air and water management principles and practices, 4) home energy performance improvement, and 5) reducing health and safety risks within a residential home. Students learn how to accurately test and evaluate existing homes and prepare write ups for customers/contractors on ways to improve energy consumption, as well as, improve indoor air quality. Students also learn how to test and evaluate existing homes for potential health and safety issues. Upon successful completion of the course, students will be prepared to take the BPI (Building Performance Institute) Energy Analyst exam.

### **CARP 161 (1-3)**

#### **Residential Print Reading**

Introduction to reading and interpreting architectural drawings for residential construction.

### **CARP 162 (1-4)**

#### **Stair Design and Construction**

Introduction to the design and construction of residential and commercial stairs. Topics include stair design factors, International Building Code requirements, common stair calculations, stair layout and cutting, and installation practices.

### **CARP 163 (1-4)**

#### **Rafters Design and Framing Level 1**

Competency-based/hybrid course that covers the theory and current practice of building a stick framed roof. Topics include basic roof theory, common roof designs, rafter length computations, layout cutting and installation of common rafters and their appropriate components, roof sheathing applications, matching existing roofs, and safety.

### **CARP 164 (1-4)**

#### **Basic Cabinet Construction**

A competency-based/hybrid course. Introduction to basic box cabinet design and construction. 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.

### **CARP 165 (1-4)**

#### **Residential Remodeling Practices**

Introduction to residential remodeling practices. Topics include planning, demolition, tying into existing buildings, basic electrical and plumbing practices, permit processes, matching existing finished material and material estimating. Most skill development will take place at off-campus sites where students will work on full-size remodeling project(s).

### **CARP 166 (1-4)**

#### **Deck Construction and Concrete Flatwork**

Competency-based course. Introduction to techniques and practices for residential deck and concrete flatwork project. Topics include material selection, construction techniques, International Building Code requirements for both decks and flatwork and creating different types of flatwork finishes.

### **CARP 167 (1-4)**

#### **Residential Material Estimating**

A competency-based course. Introduction to residential material estimating methods. Topics include foundation, framing, exterior and interior material estimating methods and practices.

### **CARP 168 (1-3)**

#### **Green Construction Principles and Practices**

Competency-based course. The study of Green Building principles and practices. Topics include environmental and economic issues related to home construction, sustainable building materials and practices, health and safety issues, energy generation and saving methods, green building codes and Washington energy codes, and testing and evaluating home performance and requirements for Energy Auditors certification.

**CARP 169 (1-4)****Advanced Stair Construction**

Competency-based/hybrid course that covers the theory and current practice of building complex stair systems including winder stairs, circular stairs and wrap-around (pyramid) stairs. Topics include layout and construction techniques for winder and circular stair systems.

**CARP 170 (1-4)****Advanced Roof Framing**

Competency-based/hybrid course that covers the theory and current practice of building complex roof systems including hip and intersecting roofs, irregular hip roofs, dormers, barrel roofs and octagonal and conical roofs.

**CARP 171 (1-6)****Advanced Cabinetry and Wood Fabrication**

Open content course designed to allow the students to build a project of their choosing in the carpentry lab. Credits are variable from 1 to 6 credits, and awarded based on project complexity and total hours logged on their project. (One credit per 16.5 hours)

**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.

**CARP 177-179 (1-12)****Carpentry Work Experience 1-3**

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. **PREREQUISITE:** Concurrent enrollment in COOP 171 and instructor's permission.

**CARP 194 (1-13)****Special Studies-Carpentry**

Students study and develop skills to meet student-identified needs within the carpentry trade. **PREREQUISITE:** Instructor's permission.

**Chemistry (CHEM)****CHEM 177 (1-12)****Chemistry Work Experience**

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. **PREREQUISITE:** Concurrent enrollment in COOP 171 and instructor's permission; and eligible for ENGL& 101.

**CHEM 194 (1-5)****Special Topics-Chemistry 1**

Allows chemistry faculty to teach topics of special interest in chemistry. Not taught on a regular basis. **PREREQUISITE:** Eligible for ENGL& 101 and instructor's permission. This is a pass/no-credit course.

**CHEM 195 (1-5)****Special Topics-Chemistry 2**

A continuation of CHEM 194 which allows chemistry faculty to teach topics of special interest in chemistry. Not taught on a regular basis. **PREREQUISITE:** Eligible for ENGL& 101 and instructor's permission.

**CHEM& 261 (6)****Organic Chemistry with Lab I**

For science and other related majors that require a full year of organic chemistry. Covers structure, nomenclature, reactions (including mechanisms) and synthesis of organic compounds, as well as spectroscopic analysis. **PREREQUISITE:** CHEM& 163 and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**CHEM& 262 (6)****Organic Chemistry with Lab II**

Continuation of CHEM& 261. **PREREQUISITE:** CHEM& 261 and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**CHEM& 263 (6)****Organic Chemistry with Lab III**

A continuation of CHEM& 262. Covers the chemistry of selected classes of biomolecules. **PREREQUISITE:** CHEM& 262 and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**CHEM 296 (1-5)****Independent Study-Chemistry 1**

Permits a student to pursue a special field of interest in chemistry under the guidance of an instructor. **PREREQUISITE:** Eligible for ENGL& 101 and instructor's permission.

**CHEM 299 (1-5)****Independent Study-Chemistry 2**

Permits a student to pursue a special field of interest in chemistry under the guidance of an instructor. **PREREQUISITE:** Eligible for ENGL& 101 and instructor's permission

**CHEM& 121 (5)****Introduction to Chemistry**

Beginning course for the non-science student interested in chemistry with less mathematical rigor than CHEM& 140. Together with CHEM& 131, it satisfies the chemistry requirement for many students in the allied health sciences and related fields. **PREREQUISITE:** MATH 072 or eligible for MATH 097; and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**CHEM& 131 (5)****Introduction to Organic Chemistry and Biochemistry**

Satisfies allied health program requirements. Covers structure, nomenclature and reactions of organic and biological compounds, and applications to living systems. **PREREQUISITE:** CHEM& 121 with a grade of 2.0 or higher or instructor's permission and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**CHEM& 140 (6)****General Chemistry Prep with Lab**

Prepares students planning to enroll in the science and engineering majors sequence (CHEM& 161, 162 and 163) who have not completed a one-year high school chemistry course or who need a refresher course prior to entering CHEM& 161. Stresses metric conversions, inorganic naming, equation writing and quantitative aspects of chemistry. **PREREQUISITE:** A grade of 2.0 or higher in MATH 072; or one year of high school algebra; or concurrent enrollment in MATH 097; or eligible for MATH& 141 or higher. Eligible for ENGL& 101. **RECOMMEND:** Eligible for READ 104. **RESTRICTION:** Students who have completed one year of high school chemistry may not be able to transfer more than five credits from CHEM& 121, 131 and 161. Satisfies a lab or natural science requirement for AA degree.

**CHEM& 161 (6)****General Chemistry with Lab I**

For science, engineering and other majors who plan to take a year or more of chemistry. Covers the structure of matter, solution chemistry (acid-base and oxidation-reduction), stoichiometry of reactions in solution, thermochemistry, atomic and electronic structure and quantitative relationships. **PREREQUISITE:** A grade of 2.0 or higher in CHEM& 140 or a one-year high school chemistry course; and concurrent enrollment in MATH& 141 or eligible for MATH& 142 or higher; or instructor's permission. Eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**CHEM& 162 (6)****General Chemistry with Lab II**

Continuation of CHEM& 161. Covers modern atomic theory, chemical bonding, molecular and electronic structure, valence bond theory, liquids and solids, and intermolecular forces. **PREREQUISITE:** A grade of 2.0 or higher in CHEM& 161 and concurrent enrollment in MATH& 142 or MATH 147; or eligible for MATH& 151 or higher; or instructor's permission. Eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**CHEM& 163 (6)****General Chemistry with Lab III**

Continuation of CHEM& 162. Covers metals and non-metals, electrochemistry, nuclear reactions and coordination compounds, thermodynamics, kinetics, equilibrium, acid-base and solubility equilibria. **PREREQUISITE:** A grade of 2.0 or higher in CHEM& 162 and eligible for MATH& 151 or higher, or instructor's permission. Eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**Chinese (CHIN)****CHIN 111 (5)****First Year Chinese for Heritage Learners**

Intended for students with some formal or home training in listening and speaking Mandarin Chinese. Focuses on reading comprehension and writing characters in context. Students who speak Mandarin with non-standard accents are trained in standard pronunciation. Uses 80% Mandarin Chinese in the classroom. Course cannot be taken by students who are highly literal in Mandarin Chinese. **PREREQUISITE:** Eligible for ENGL 099. Satisfies a humanities/fine arts/ English requirement for AA degree.

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### CHIN& 121 (5) Chinese I

Begins the study of Mandarin Chinese (the official Chinese Language). Focuses on listening, speaking, reading, and writing. Emphasizes pronunciation, vocabulary development, and sentence structure. Includes practices with complex Chinese characters, as well as simpler forms. PREREQUISITE: No previous background in Mandarin Chinese, or no more than one year of high school Mandarin, or no more than two years of high school Mandarin with a "C" average or less. Eligible for ENGL& 101. Satisfies a humanities/fine arts/ English requirement for AA degree.

### CHIN& 122 (5) Chinese II

Continues the study of Mandarin Chinese. Focuses on listening, speaking, reading, and writing. Emphasizes pronunciation, vocabulary development, and sentence structure. Includes practice with complex Chinese characters as well as simpler forms. PREREQUISITE: A grade of 2.0 or higher in CHIN& 121 or equivalent with instructor's permission and eligible for ENGL& 101. Satisfies a humanities/fine arts/ English requirement for AA degree.

### CHIN& 123 (5) Chinese III

Completes the study of Mandarin at the elementary level. Focuses on listening, speaking, reading and writing. Emphasizes pronunciation, vocabulary development, complex sentence structure, and writing with Chinese

## Communication Studies (CMST)

### CCMST 100 (5) Fundamentals of Oral Communication

Develops critical thinking and problem-solving skills related to communication in business and organizational settings. Includes job search skills, cover letters, resume writing, and interviewing. Oral activities include interpersonal exercises, group discussions, and giving directions. PREREQUISITE: Eligible for ENGL 099; or completion or concurrent enrollment in ENGL 109; or instructor's permission.

### CMST& 102 (5) Introduction to Mass Media

Examines the eight forms of mass media (movies, television, the web, radio, sound recordings, magazines, newspapers and books) and related issues such as advertising, media effects, journalism and media law. Satisfies a humanities/fine arts/English requirement for AA degree.

### CMST 177-179 (1-12) Communication Studies Work Experience 1-3

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.

### CMST 194 (1-5) Special Studies-Communication Studies

Includes special communication projects that are not part of the regular curriculum. Content varies from course to course, but could include public relations, advertising, organizational design, research grants, and professional publications.

### CMST& 210 (5) Interpersonal Communication

For students who wish to gain greater insight into communication that occurs in more personal relationships in order to better understand and control their own communication behavior, and thus more effectively manage their interpersonal relationships. PREREQUISITE: Eligible for ENGL 099; or completion of ENGL 109; or instructor's permission. Satisfies a humanities/fine arts/ English requirement for AA degree.

### CMST 212 (5) Persuasion and Propaganda

An exploration of the art and science of persuasion and propaganda campaigns through the analysis of a series of historical case studies and social movements. Explores how the historical, political, and cultural factors in a situation influence the strategies and tactics that might be employed in a situation. Relates rhetorical choices to ethical considerations and to the long-term impact on a community. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree

### CMST 215 (5) Critical Analysis of Media

Examines basic theories of media analysis and effects. Covers stereotypes, persuasive messages, and violent and sexual imagery. Applies media theories to a variety of media including movies, television, radio, and print. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### CMST 217 (5) Communication for Business and Professions

A course in professional communication that includes an overview of communication theory and skill development in organizational settings. Emphasizes interpersonal skill development for the workplace, meeting facilitation and working in teams, interviewing and enhancing professionalism in the digital age. PREREQUISITE: Eligible for ENGL 099 or instructor's permission.

### CMST& 220 (5) Public Speaking

A course in public speaking that helps students develops confidence and competence in addressing diverse audiences in community and professional settings. Students compose and deliver speeches, as well as evaluate others' presentations. Emphasizes choice and organization of material, sound reasoning, audience analysis, and delivery. PREREQUISITE: Eligible for ENGL 099; or completion of ENGL 109; or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### CMST 221 (1-2) Public Speaking Module

Taken in conjunction with courses that require oral presentations. Helps increase confidence and skill when delivering an oral presentation by providing opportunities for individual coaching. Students taking CMST 100, CMST& 220, or CMST& 230 concurrently will be able to practice speeches assigned in their classes, however, this class is available to any student wishing to improve presentational skills. Student coaching sessions will be recorded, and students will have access to their own speeches for the purpose of analysis. PREREQUISITE: Concurrent enrollment in CMST 100, CMST& 220, or CMST& 230; or instructor permission for other courses requiring oral presentations.

### CMST 222 (5) Coaching and Mentoring Public Speakers

Offers students who have taken a beginning public speaking course. An opportunity to enhance the public speaking skills learned in their previous course by presenting at least two speeches. Students also learn skills that will enable them to coach other students wishing to improve their presentations. Course also entails a review of the principles of effective public speaking, observing coaching sessions in the Green River Public Speaking Center, and actively coaching other students in the Public Speaking Center. Course is useful for future teachers, as well as any student whose future careers or community involvement will require delivering presentations. PREREQUISITE: CMST 220 with a grade of 3.2 or higher; and instructor's permission.

### CMST& 230 (5) Small Group Communication

Includes analysis of leadership and discussion in small group contexts with a goal of developing communication behaviors that promote a more effective, efficient, and satisfying interaction in groups and leadership contexts. Addresses the functional problems of leadership, organization in groups, developing involvement strategies within groups, problem solving, consensus building, and conflict management. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### CMST 238 (5) Intercultural Communication

Looks at communication across cultures on the interpersonal and inter-group levels. Investigates the components of culture that work to affect the communication of members in and across cultures, including consideration of the role of culture on majority and minority cultural groups related to race, ethnicity, gender, sexual orientation, class, disability, religion, age, immigration, etc. Examines different aspects of the communication process as they relate to intercultural communication, including perception, language, nonverbal communication, etc. Considers the overview of prevalent theories and practical applications. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirement for AA degree.

**CMST 245 (5)**  
**Argumentation**

Introduces and explores the basic theories and practices of argumentation. Discusses the different types of arguments and the tools (theoretical and practical) needed to analyze, understand, and construct arguments. Through in-class projects, students develop the skills necessary to test and apply the theoretical and practical aspects of argumentation. Focuses on the oral presentation of arguments. Uses written work to support and provide context for the oral argumentation practiced in class. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**CMST 265 (5)**  
**Introduction to Popular Culture**

Introduces theories and practices of popular culture, their relationship to both the center and margins of popular culture, and the ways popular culture can shape our perceptions of race, class, gender, sexuality, etc. Introduces some of the important critiques of culture and covers different theories and critiques to help the students understand popular culture, the consumption of popular culture and/or the effects of popular culture in different contexts (e.g., music, film, advertising, comics, television, etc.) PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine art/English and diversity course requirement for AA degree.

**CMST 266 (1-5)**  
**Film and Television as Popular Culture**

Studies the dramatic and cinematic aesthetics of modern film and episodic television. Focuses on the examination of popular film and TV dramas and sitcoms for greater understanding of the power and scope of popular culture. Considers the role of pop culture in both society and self-awareness. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**CMST 299 (1-5)**  
**Independent Study–Communication Studies**

Encourages a student to study independently in a communication field of their choice. Each student meets on a tutorial basis with the instructor. PREREQUISITE: Two courses from the following: CMST 212, 215, &220, &230, 238, 245; a topic that a member of the department is qualified and willing to direct and evaluate, and permission from the division chair and instructor.

**CMST 338 (5)**  
**Diversity in the Workplace**

Explores and analyzes the issues, challenges and opportunities related to changing demographics and increasing diversity in the workplace. Through intercultural communication theories, concepts, and principles, the course examines ways in which challenges of effective communication in a diverse workplace can be identified and work to develop tools and skills to improve communication competency in these situations. PREREQUISITE: Admission to a bachelor's program; ENGL& 101; and instructor's permission.

**Computation (ACOMP)**

**ACOMP 100T (5)**  
**Computations for the Trades**

Computational course designed to meet the specific needs of students in the trades/technical programs. Covers basic operations of arithmetic and an overview of applied geometry concepts and their applications to specific trades and the applications of whole numbers, fractions, decimals, percents, ratios, proportions, place value, roots, and basic concepts related to measurement, algebra, and geometry. Appropriate for Auto Body, Automotive, Carpentry, Machinist, and Welding students. Course not intended for transfer to any college-level mathematics sequence at Green River or at any four-year institution. PREREQUISITE: BASIC 053 or appropriate COMPASS score.

**Computer Reporting Technologies (CRPT)**

**CRPT 080 (1)**  
**Machine Shorthand Lab**

Students use the lab to produce transcripts and work on Sten-Ed Realtime writing drills as assigned by instructor. PREREQUISITE: Concurrent enrollment with CRPT 094-099.

**CRPT 090.1 (3-4)**  
**Machine Shorthand Theory-Beginning**

Students study the theory and arrangement of the keyboard. Teaches StenEd Realtime Theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. PREREQUISITE: Instructor's permission.

**CRPT 090.2 (3-4)**  
**Machine Shorthand Theory-Intermediate**

Students study the theory and arrangement of the keyboard. Teaches StenEd Realtime Theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. PREREQUISITE: CRPT 090.1.

**CRPT 091 (3-4)**  
**Machine Shorthand Theory-Advanced**

Continues to study the theory and arrangement of the keyboard. Teaches StenEd Realtime Theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. PREREQUISITE: CRPT 090.2 or 100.1.

**CRPT 092 (3-4)**  
**Machine Shorthand 40wpm**

Develops skill in writing dictation and reading notes with practice on new and familiar material. Students should attain 40 wpm with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 091 or 100.2.

**CRPT 093 (3-4)**  
**Machine Shorthand 60wpm**

Develops skill in writing dictation and reading notes with practice on new and familiar material. Students should attain 60 words per minute with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 092 or 101.1.

**CRPT 094 (5-6)**  
**Machine Shorthand 80wpm**

Develops skill in writing dictation and reading notes with practice on new and familiar material. Students should attain 80 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 093 or CRPT 101.2 and concurrent enrollment with CRPT 080.

**CRPT 095 (5-6)**  
**Machine Shorthand 100wpm**

Concentrated drill and dictation on two-voice testimony, jury charge, literary, and medical material. Students should attain 100 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 094 or 102 and concurrent enrollment with CRPT 080.

**CRPT 096 (5-6)**  
**Machine Shorthand 120wpm**

Concentrated drill and dictation on two-voice testimony, jury charge, literary, and medical material. Students should attain 120 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 095 or 133 and concurrent enrollment with CRPT 080.

**CRPT 097 (5-6)**  
**Machine Shorthand 140wpm**

Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 140 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 096 or 134 and concurrent enrollment with CRPT 080.

**CRPT 098 (5-6)**  
**Machine Shorthand 160wpm**

Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 160 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 097 or 135 and concurrent enrollment with CRPT 080.

**CRPT 099 (5-6)**  
**Machine Shorthand 180wpm**

Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 180 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 098 or 136 and concurrent enrollment with CRPT 080.

**CRPT 100.1 (10)**  
**Machine Shorthand Theory 1**

Students study the theory and arrangement of the keyboard. Teaches StenEd Realtime Theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. PREREQUISITE: Instructor's permission.

**CRPT 100.2 (10)**  
**Machine Shorthand Theory 2**

Students study the theory and arrangement of the keyboard. Teaches StenEd Realtime Theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. PREREQUISITE: CRPT 100.1.

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### **CRPT 101.1 (10)** **Machine Shorthand Theory 3**

Continues the study of theory and develops skill in writing dictation and reading notes with practice on new and familiar material. Students should attain 40 wpm with a minimum of 95 percent accuracy in a typewritten transcription. PREREQUISITE: CRPT 100.2.

### **CRPT 101.2 (10)** **Machine Shorthand 60wpm**

Continues the study of theory and develops skill in writing dictation and reading notes with practice on new and familiar material. Students should attain 60 wpm with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 101.1 or instructor's permission and concurrent enrollment with CRPT 080.

### **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 101.2.

### **CRPT 133 (12-16)** **Machine Shorthand 100wpm**

Concentrated drill and dictation on two-voice testimony, jury charge, literary, and medical material. Students should attain 100 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 094 or 102.

### **CRPT 134 (12-16)** **Machine Shorthand 120wpm**

Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 120 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 095 or 133.

### **CRPT 135 (12-16)** **Machine Shorthand 140wpm**

Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 140 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 096 or 134.

### **CRPT 136 (8-16)** **Machine Shorthand 160wpm**

Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 160 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 097 or 135.

### **CRPT 153 (5)** **Court Reporting Procedures 1**

Prepares students for the reporting profession and related jobs. Topics include professional responsibilities and ethics, professional associations, professional image and dress, notary public, reference materials including methods of researching medical information, psychological and physical diseases, and drugs, deposition procedures, transcript preparation and format, marking exhibits, indexing and storing steno notes, and reporting techniques. Covers punctuating the spoken word, vocabulary building, capitalization, and proofreading. PREREQUISITE: ENGL 105 and instructor's permission.

### **CRPT 154 (5)** **Court Reporting Procedures 2**

Covers more advanced reporting procedures, such as court transcripts and procedures, overview of video equipment in depositions and trials, state and federal judicial system, civil and criminal law and the trial process, administrative hearings, dictating a transcript, reporting interpreted proceedings including administering the oath, voir dire proceedings, polling of the jury, daily copy, computer-aided transcription, computer-integrated courtroom, and types of reporting possibilities. Students participate in mock depositions and trials. Stresses all punctuation aspects and proofreading. PREREQUISITE: CRPT 153.

### **CRPT 177-179 (1-12)** **Court Reporting/Captioning Work Experience 1-3**

Allows student to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.

### **CRPT 201 (12-16)** **Machine Shorthand 180wpm**

Concentrated drill and dictation on two-voice and multi-voice testimony, jury charge, literary, and medical material. Students should attain 180 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 098 or 136.

### **CRPT 202 (12-16)** **Machine Shorthand 200wpm**

Concentrated drill and dictation on two-voice and multi-voice testimony, jury charge, literary, and medical material. Students should attain 200 wpm on new material with a minimum of 95 percent accuracy in transcription. PREREQUISITE: CRPT 201.

### **CRPT 203 (12-16)** **Machine Shorthand 225wpm**

Concentrated drill and dictation on two-voice and multi-voice testimony, jury charge, literary and medical material. Students should attain 225 wpm on two voice testimony with a minimum of 95 percent accuracy, 200 wpm on jury charge and 180 wpm on literary with a minimum of 95 percent in transcription. PREREQUISITE: CRPT 202.

### **CRPT 250 (3)** **Computer-Aided Transcription**

Teaches students the basic care and maintenance of computer hardware and CAT writers, as well as an understanding of computer technology. Students learn the necessary steps to produce a transcript, including how to read, translate, edit and print transcripts through hands-on techniques using Case Catalyst software. Includes discussions of other software and applications. Covers psychology of realtime writing, utilization of resource materials preparatory to writing realtime, updating dictionaries, file maintenance, and litigation support ASCII disks, keyword indexes. Course requires previous computer familiarity. PREREQUISITE: Instructor's permission.

### **CRPT 251 (3)** **Introduction to Captioning/Alternative Careers**

Teaches students the various types, applications, and environments of captioning, as well as the necessary equipment and setup required for each method. Students gain an understanding of the Americans with Disabilities Act and the FCC Telecommunications Act and their effect on captioners and court reporters. Gives students an overview of deaf culture awareness and sensitivity issues, as well as an overview of additional high-tech career options within the reporting industry, including medical/legal transcription, and CART reporting. PREREQUISITE: CRPT 201 and 251; or instructor's permission.

### **CRPT 252 (4)** **Captioning Internship 1**

Introduces applications and environments of captioning and CART equipment and software considerations. Industry-approved guidelines for captioning preparation, formats, methods of presentation, text placement, presentation rate, special considerations are covered. Dictionary entries, prefixes/suffixes, fingerspelling, building endurance, practice strategies, internet-based research are covered. Hands-on captioning simulation utilizing audio/video drills. Previous completion of 160 wpm literary required. PREREQUISITE: CRPT 201 and CRPT 251; or instructor's permission.

### **CRPT 253 (4)** **Captioning Internship 2**

Hands-on experience simulating the captioning environment. Focuses on the captioning process from job assignment, research, dictionary prep, writing session, and file review for quality control. Dictionary building and maintenance in current local, national, and international news, politics and government, sports, food, arts and entertainment, and other related topics are emphasized. PREREQUISITE: CRPT 252 or instructor's permission.



**CRPT 255 (3)**  
**Computer-Aided Transcription-Advanced**  
 Students receive instruction in advanced features of Computer-Aided Transcription (CAT) software. Students learn the steps to produce advanced elements of a verbatim transcript through hands-on techniques using CaseCATalyst software. Course includes an overview of other software and their applications. Covers advanced realtime writing options and features, resource material prior to writing realtime, dictionary maintenance, exhibit, and keyword indexes, custom include files, custom page layouts, and number conversion features. Course requires previous use of CaseCATalyst or other CAT software. PREREQUISITE: CRPT 250 or instructor's permission.

**Computer Science (CS)**

**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: MATH& 142 or concurrent enrollment; or instructor's permission. Cross-listed with ENGR 120.

**CS& 131 (5)**  
**Computer Science I 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. PREREQUISITE: MATH& 142 and CS/ENGR 120; or instructor's permission. Satisfies a natural science requirement for AA degree.

**CS 132 (5)**  
**C++ Data Structures**  
 A continuation of CS& 131. Uses C++ data structure to illustrate concepts in computer science. Students organize and write C++ language computer programs to obtain the solutions to assigned problems. Emphasizes use of common data structures, abstract data types, inheritance, modularity, encapsulation, and recursion. Students learn to understand, design and implement medium-sized programs. PREREQUISITE: CS& 131 with a grade of 2.0 or higher and MATH& 151. Satisfies a natural science requirement for AA degree.

**CS& 141 (5)**  
**Computer Science I Java**  
 Course uses programming language Java 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 Java computer programs. PREREQUISITE: (CS/ENGR 120 or IT 102 or CS& 131) and MATH& 142. Satisfies a natural science requirement for AA degree.

**CS 145 (5)**  
**Java 2 Data Structure**  
 A continuation of CS & 141. Uses Java language to cover topics such as classes and interfaces, inheritance, basic design principles, exceptions, stream I/O, user interfaces, recursion, elementary data structures and associated algorithms (lists, queues, stacks, trees); and introduces performance analysis and implementation trade-offs. Successful completion of the course gives students the tools they need to construct substantial computer programs and understand computers and software. Course also provides a good foundation for further study in computer science and engineering. PREREQUISITE: CS& 141 with a minimum grade of 2.0. Satisfies a natural science requirement for AA degree.

**Cooperative Education (COOP)**

**COOP 171 (1)**  
**Work Experience Seminar**  
 Supplements and enhances on-the-job work experience through projects, films, and research. The basic content of the course reflects issues that are general to the world of work. Serves as a guideline for students as they go through the employment cycle of setting goals, researching careers, applying for and getting jobs, and getting familiar with workplace issues.

**Criminal Justice (CJ)**

**CJ& 101 (5)**  
**Introduction to Criminal Justice**  
 Students learn about current events in crime, criminal justice agencies and the response of correctional institutions to criminal offenders. Includes detailed descriptions of the duties and functions of specific actors in the system including victim, offender, police, prosecuting and defense attorneys, courts and corrections. Satisfies a social science requirement for AA degree.

**CJ& 105 (5)**  
**Introduction to Corrections**  
 Examines the progression of correctional practices from the colonial period to the 21st century. Other topics include the role of inmates, correctional officers, and administration. PREREQUISITE: CJ& 101, CJ 200, and ENGL& 101 or higher; or instructor's permission. Satisfies a social science requirement for AA degree.

**CJ& 110 (5)**  
**Criminal Law**  
 Examines criminal laws such as federal, state, and county laws. Focuses on criminal laws and their impact through selective enforcement by criminal justice officials. Gives special attention to substantive criminal law. PREREQUISITE: CJ& 101, CJ 200 and ENGL& 101 or higher; or instructor's permission. Satisfies a social science requirement for AA degree.

**CJ 115 (5)**  
**Fingerprint Science**  
 Examines fingerprint classification and latent fingerprinting. Intended for anyone interested in the field and as preparation for the "fingerprint technician" position. Basic skills include preparing students for direct entry into the workforce.

**CJ 120 (5)**  
**Criminal Justice Professions**

Provides an introduction to the potential career opportunities and professional positions available in the criminal justice field, including law enforcement, courts, and corrections, at municipal, state, and federal levels. Intended to help students explore criminal justice professions they might not be aware of and get an overview of potential jobs in criminal justice, including research into current employment trends. Students focus on particular positions of interest, including the educational and training requirements and job-finding and hiring strategies.

**CJ 177-179 (1-5)**  
**Criminal Justice Work Experience 1-3**  
 Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.

**CJ 200 (5)**  
**Individual Rights in Criminal Justice**  
 Covers the historic, legal and political basis of individual rights in the United States. Analyzes search and seizure, freedom of expression, pornography, sexual harassment, arrest, and workings of the United States Supreme Court. PREREQUISITE: CJ& 101 and ENGL& 101 or higher; or instructor's permission.

**CJ 205 (5)**  
**Criminal Evidence**  
 Covers basic rules of guidance applicable to criminal and other related police duties. Examines evidence and theories of proof including hearsay, documentary proof, self-incrimination, relevance, and presumptions. Emphasizes the exclusionary rule and search and seizure aspects of the Fourth Amendment. PREREQUISITE: CJ& 101, CJ 200, and ENGL& 101 or higher; or instructor's permission.

**CJ 220 (5)**  
**Multicultural Diversity in Criminal Justice**  
 Addresses the beauty and richness of a culturally diverse population. Discusses uniqueness, diversity, stereotypes, prejudice, and discrimination in relation to criminal justice professionals. PREREQUISITE: CJ&101, CJ 200, and ENGL& 101 or higher; or instructor's permission. Satisfies the diversity course requirement for AA degree.

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### **CJ 236 (5)** **Community Oriented Policing**

Examines placement of police officers into the community to enhance the relationship between society and law enforcement. In the 21st century, police have found they need to better communicate with citizens. Community oriented policing engages the officer to work with individuals in the community to resolve community crime. PREREQUISITE: CJ& 101, CJ 200, and ENGL& 101 or higher; or instructor's permission.

### **CJ& 240 (5)** **Introduction to Forensic Science**

Covers many different areas of forensic science that are used today, including the latest methods and technologies used to solve crimes. Class is taught through lecture and expert speakers on topics such as autopsy procedures, arson investigation, explosives, ballistics and toolmarks, and DNA. PREREQUISITE: CJ& 101, CJ 200, and ENGL& 101 or higher; or instructor's permission. Satisfies a social science requirement for AA degree.

### **CJ 294 (5)** **Special Topics-Criminal Justice**

Consists of current topics in the criminal justice field and may focus on areas in policing, corrections and other topics relevant to current trends and interests.

### **CJ 299 (1-5)** **Independent Study-Criminal Justice**

Encourages students to study independently in a field they find most useful to their academic or career aspirations. Students choose an area in criminal justice and work in conjunction with instructor to study and conduct research independently. PREREQUISITE: Instructor's permission.

## **Dance (DANCE)**

### **DANCE 101 (3)** **Introduction to Dance**

Emphasizes basic jazz and ballet techniques, and introduces the skills and practices of both dance forms. Jazz involves body toning exercises, physical fitness, cardiovascular endurance, and strength and flexibility. Students learn short dance routines. Ballet focuses on body awareness, mental and physical discipline, balance, poise, gracefulness and rhythmic awareness, as well as an appreciation of the arts. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

### **DANCE 102 (3)** **Dance Technique 1**

Emphasizes jazz and ballet techniques, and further develops the skills and practice of both dance forms. Jazz involves body toning exercises, physical fitness, cardiovascular endurance, strength and flexibility. Students learn short dance routines. Ballet focuses on body awareness, mental and physical discipline, balance, poise, gracefulness and rhythmic awareness, as well as building an appreciation of the arts. PREREQUISITE: DANCE 101. Satisfies a humanities/fine arts/English requirement for AA degree.

### **DANCE 103 (3)** **Dance Technique 2**

Emphasizes jazz and ballet techniques. Further develops the skills and practice of both dance forms. Jazz involves body toning exercises, physical fitness, cardiovascular endurance, strength and flexibility. Students learn short dance routines. Ballet focuses on body awareness, mental and physical discipline, balance, poise, gracefulness and rhythmic awareness, as well as building an appreciation of the arts. PREREQUISITE: DANCE 102; or 2-3 years ballet training and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **DANCE 110 (2)** **Pointe Technique**

Emphasizes ballet technique pertaining to pointe work. Develops the skills and practice of releve, core awareness, balance, strength and flexibility, physical endurance and gracefulness. PREREQUISITE: DANCE 103; or 2-3 years of ballet training and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **DANCE 204 (3)** **Choreography Workshop**

Students present rehearsal and performance of dance works in concert. Students practice advanced dance skills and develops choreography for dance pieces. PREREQUISITE: DANCE 101 and 102, or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

## **Design Technology (D T)**

### **D T 100 (7)** **Introduction to CADD/CAM**

Introduces computers and software applicable to design drafting-related careers. Primary instruction covers AutoCAD and KeyCreator software, which is used for computer-aided drafting to originate and edit drawings. Includes instruction on file management and an introduction to word processing. PREREQUISITE: Eligible for ENGL 081 and READ 104.

### **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 101.1 (4)** **Drafting Fundamentals**

Fundamental drawing course that provides students with knowledge of drafting tools and techniques. Includes drafting fundamentals, lettering, geometric construction, orthographic projection, and isometric drawing. Equivalent to completing the first half of D T 101. PREREQUISITE: Eligible for ENGL 081 and READ 104.

### **D T 101.2 (3)** **Machine Drafting 1**

Fundamental drawing course that provides students with knowledge of orthographic projection, dimensioning, and sectional views. Equivalent to completing the second half of D T 101. PREREQUISITE: D T 101.1 or instructor's permission.

### **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. Applying descriptive geometry develops and dimensions primary and secondary auxiliary views of 3-D objects. Dimensions and tolerancing is in compliance with the ASME Y14.5 standard, introducing GD&T symbols. Students draw cross sections and develop flat patterns for sheet metal components. PREREQUISITE: D T 101 or 101.2.

### **D T 102.1 (4)** **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. Equivalent to the first half of DT 102. PREREQUISITE: D T 101 or 101.2.

### **D T 102.2 (3)** **Machine Drafting 2**

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. Equivalent to the second half of DT 102. PREREQUISITE: D T 102.1.

### **D T 105 (2)** **Design Drafting Careers**

Covers design drafting including the types of jobs, required skills, and degree and certificate programs offered at Green River. Introduces competencies required for design drafting. Students prepare a program of study to achieve their educational goal.

### **D T 110 (4)** **Introduction to AutoCAD**

Introduces Computer Aided Drafting (CAD) using the AutoCAD software. Focuses on teaching the commands for creating, editing, and dimensioning 2-D drawing. Discusses methods for creating documents that are accurate and accomplished in a timely manner. Emphasizes file management techniques using Windows Explorer.

### **D T 112 (4)** **Introduction to KeyCreator**

Teaches the commands for creating, editing, and dimensioning 2-D drawings and 3-D solid models using the KeyCreator software. Discusses methods for creating documents which are accurate and accomplished in a timely manner. Emphasizes file management skills using Windows Explorer.

- D T 113 (4)**  
**Introduction to 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: Familiar with Windows Operating System, file management, and instructor's permission.
- D T 115 (4)**  
**Geometric Dimensioning and Tolerancing**  
 Geometric Dimensioning and Tolerancing (GD&T) is an international technical language of symbols used to describe the function and relationship of a part's feature. The symbology of GD&T, as defined in the ASME Y14.5 standard, is understood and applied by all designing and manufacturing communities. Students learn to recognize, interpret and apply GD&T theories and symbols. Students study applicable mathematical formulas.
- 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 101 or (D T 101.1 and 101.2).
- D T 128 (3)**  
**International Residential Code**  
 Students learn general and specific requirements of building codes, particularly as they apply to the residential carpenter, contractor, builder, or homeowner. Covers energy codes, zoning laws, and environmental protection requirements.
- D T 129 (3)**  
**International Building Code**  
 Teaches students general and specific requirements of building codes, particularly as they apply to the commercial carpenter, contractor, or builder.
- D T 131 (7)**  
**Mechanical Drafting-CADD**  
 Introduces principles, techniques and applications of designing mechanical parts. Areas of study include selection of views, sectioning and auxiliary views, drafting conventions, format selection, dimensioning conventions using ANSI Y14.5 standards, setting DIMVARS in AutoCAD, threads and fasteners, machine shop practices, purchasing parts, and career opportunity discussions. PREREQUISITE: Instructor's permission.
- D T 135 (7)**  
**3D CADD/CAM**  
 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. Computer-aided manufacturing is introduced by developing a 2-D toolpath on Mastercam CADD/CAM program then machining 2-D toolpaths on milling machine. 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: DT 101 or (D T 101.1 and 101.2); and either D T 100 or 110.
- D T 142 (4)**  
**REVIT Architecture 1**  
 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. Students learn the whole building design process, as well as cost, the environment and sustainability. PREREQUISITE: Familiar with Windows Operating System, file management, and 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 (D T 101.1 and 101.2); 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 (D T 101.1 and 101.2); or instructor's permission.
- D T 147 (4)**  
**Structural Drafting-Wood**  
 Covers design and detail wood construction framing. Covers floor framing, wall construction, roof framing, i.e. trusses versus stick framing. Covers deck construction, railings and stairs. Lumber, Glu-Lam Beams, Rough Sawn, man-made wood products, such as Weyerhaeuser products, Parallam, TimberStrand, Microllam and Trus Joist. PREREQUISITE: D T 101; or (D T 101.1 and 101.2); or D T 100 or 110; or instructor's permission.
- D T 151 (7)**  
**Technical Illustration**  
 Emphasizes visualization by developing 3-D pictorial drawings, dealing with non-isometric surfaces and 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 (D T 101.1 and 101.2).
- D T 161 (5)**  
**Electrical and Electronic Drafting (CADD)**  
 Covers symbolization and good drafting techniques. Also covers the application of symbols to the circuit and the identifications each one has. Students prepare schematics and logic diagrams that follow standard drafting practices. Covers methods for handling wiring requirements, and sheet metal packaging for electronic components. Teaches simple printed circuit board layout and checking work for accuracy. PREREQUISITE: D T 100; and D T 101 or (D T 101.1 and 101.2) or instructor's permission.
- D T 165 (3)**  
**Electronics Drafting**  
 Introduces students to the AutoCAD drafting program and drafting procedures. Covers symbolization and good drafting techniques. Covers the application of symbols to the circuit and the identifications each one has. Students prepare schematics and logic diagrams that follow standard drafting practices. Discusses methods for handling wiring requirements, and sheet metal packaging for electronic components. Teaches simple printed circuit board layout and checking work for accuracy. PREREQUISITE: Instructor's permission.
- D T 175 (3-12)**  
**Drafting Work Experience**  
 Supervised work experience at an approved training location. Work experience activities are opportunities for students to use their drafting knowledge and skills. Students work at least three hours each week for each credit enrolled and participate in weekly seminars to facilitate personal growth and workplace ethics. This is a pass/no-credit course.

## 140 Course Descriptions

### D T 177 (3) Drafting Work Experience 1

Supervised work experience at an approved training location. Work experience activities are opportunities for students to use their drafting knowledge and skills. Student work at least six hours each week and participate in weekly seminars to facilitate personal growth and workplace ethics. This is a pass/no-credit course.

### D T 178 (3) Drafting Work Experience 2

Supervised work experience at an approved training location. Work experience activities are opportunities for students to use their drafting knowledge and skills. Student work at least six hours each week and participate in weekly seminars to facilitate personal growth and workplace ethics. PREREQUISITE: D T 177. This is a pass/no-credit course.

### D T 179 (3) Drafting Work Experience 3

Supervised work experience at an approved training location. Work experience activities are opportunities for students to use their drafting knowledge and skills. Student work at least six hours each week and participate in weekly seminars to facilitate personal growth and workplace ethics. PREREQUISITE: D T 178. This is a pass/no-credit course.

### D T 180-182 (1) Leadership Skills 1-3

Provides personal development experiences through participation in class, as well as leadership activities at school and in the community. Emphasizes individual participation to identify, plan, implement, promote, and evaluate activities. Instruction facilitates the development of personal skills in speaking, applying for a job, conducting business meetings, working on committees, and developing a plan of work.

### D T 199 (1-5) Independent Study-Drafting 1

Encourages students to study and develop independently in a special topic area of drafting under the guidance of an instructor. Course content is developed in conference between the student and instructor. Students meet on a tutorial basis with the instructor. PREREQUISITE: Instructor's permission.

### D T 200 (2) ADDA Certification

Strengthens student's potential for passing the ADDA Drafter Certification Examination. 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. The ADDA Drafter Certification Examination is scheduled at the conclusion of this course.

### D T 210 (4) Advanced AutoCAD Development 1

Introduces the tools and skills necessary to develop advanced utilities to improve your AutoCAD performance. Focuses on learning and mastering basic customization tools. Also teaches a basic understanding of the capabilities and limitations of AutoCAD menus and scripts. PREREQUISITE: D T 110 or 131; or instructor's permission.

### D T 225 (4) Civil Drafting 2

Teaches advanced civil drafting techniques. Course expands Autodesk's Land Desktop Companion (LDC) civil 3-D modeling concepts started during the D T 125 class. Includes design elements of roadway horizontal and vertical alignments, profiles, grade lines, roadway cross-sections, side slopes, road templates and earthwork volume calculations. Students use industry standards to create plan and profile drawings. PREREQUISITE: D T 125 or instructor's permission.

### D T 231 (7) 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 102 and 131; or instructor's permission.

### D T 232 (7) Drafting and Design Projects (CADD)

Covers a broad review of the factors influencing the function of mechanical components such as materials and manufacturing methods. Emphasizes a complete graphical representation of each of the components that go into a set of working drawings. Students work on a project selected by the class or projects assigned by the instructor. Projects are selected on the basis of difficulty and completeness. The instructor endeavors to obtain a project from a local manufacturing company. Design teams create documentation for manufacturing. PREREQUISITE: D T 231 with a grade of 2.0 or higher or instructor's permission.

### D T 236 (4) Introduction to Inventor

Introduces Autodesk's "Inventor" solid modeling program. Focuses on creating sketches and applying appropriate geometric and dimensional driven constraints to drive model development, editing the model and creating multi-level assemblies. Students learn visualization, sketching, and 3-D parametric modeling to display detailed drawings based on the solid part or assembly. PREREQUISITE: An understanding of AutoCAD commands or D T 100 or 110 or instructor's permission.

### D T 237 (4) Advanced 3-D CADD/CAM

Focuses on rapid prototyping using Mastercam software. Includes creation and editing of 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 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: D T 135.

### D T 238 (3) Inventor II

Provides an intermediate level look at Autodesk Inventor program. Continues where D T 236 ends and is for students who work with assemblies bearing multiple sub-assemblies. Students learn to create new parts based on location of relative parts in an assembly. Students reaffirm their skills in Inventor File and project management programs. Students learn to edit complex assemblies that other students have already created. PREREQUISITE: D T 236 or instructor's permission.

### D T 240 (5) Electrical and Mechanical Building Systems

Teaches students design, construction principles, methods, and materials of the following building systems: electrical, water supply, sanitary, storm drainage, heating, air conditioning, ventilating, fire protection, and conveying. PREREQUISITE: D T 141 or instructor's permission.

### D T 241 (4) Architectural Drafting 2

Develops advanced architectural drafting skills, including multi-level floor plans, stairs and stair sections, foundation plans, floor framing and wall sections, and/or building cross sections. Students complete drafting assignments using AutoCAD and/or manual drafting. PREREQUISITE: D T 141 or instructor's permission.

### D T 261 (4) Printed Circuit Board Design (CAD)

Introduces logic symbolization and circuit flow. Includes layout of circuit using a logic drawing for input, obtaining drill and trim information, drawing drill and trim documents, preparing the circuit to allow flow of voltage and amperage levels, reading vendor manuals for component data, preparing assembly information or circuit boards, and checking finished electronic circuit board. PREREQUISITE: D T 161 or instructor's permission.

### D T 277 (3) Drafting Work Experience 4

Supervised work experience at an approved training location. Work experience activities are opportunities for students to use their drafting knowledge and skills. Student work a minimum of fifteen hours each week. PREREQUISITE: D T 179. This is a pass/no-credit course.

**D T 278 (3)**  
**Drafting Work Experience 5**

Supervised work experience at an approved training location. Work experience activities are opportunities for students to use their drafting knowledge and skills. Student work a minimum of fifteen hours each week. PREREQUISITE: D T 277. This is a pass/no-credit course.

**D T 279 (3)**  
**Drafting Work Experience 6**

Supervised work experience at an approved training location. Work experience activities are opportunities for students to use their drafting knowledge and skills. Student work a minimum of fifteen hours each week. PREREQUISITE: D T 278. This is a pass/no-credit course.

**D T 299 (1-5)**  
**Independent Study-Drafting 2**

Encourages students to study and develop independently in a special topic area of drafting under the guidance of an instructor. Course content is developed in conference between the student and instructor. Students meet on a tutorial basis with the instructor. PREREQUISITE: Instructor's permission.

**Drama (DRMA)**

**DRMA& 101 (5)**  
**Introduction to Theatre**

Introduces the understanding and enjoyment of the arts, theater and films. Course regards drama as one of the performing arts and not as literature. PREREQUISITE: Eligible for READ 104. Satisfies a humanities/fine arts/English requirement for AA degree.

**DRMA 102 (5)**  
**Contemporary American Theatre**

Introduces the student to trends in American theatre beginning with the early 20th-Century and continuing to today. Course focuses on the evolution of American playwrighting, the changes in the theatrical arts to include scene, costume, lighting and sound design. Course regards drama as one of the performing arts and not as literature. Satisfies a humanities/fine arts/English requirement for the AA degree.

**DRMA 111 (5)**  
**Rehearsal and Performance 1**

Students participate in play production and performance at an introductory level to include bit parts or ensemble members onstage; or member of a backstage crew, e.g., costumes, props, etc. Satisfies an activity or a humanities/fine arts/English requirement for the AA degree.

**DRMA 112 (5)**  
**Rehearsal and Performance 2**

Students participate in play production and performance at a beginning level to include bit parts or ensemble members onstage; and/or backstage crew head on costumes, props, etc. PREREQUISITE: DRMA 111.

**DRMA 113 (5)**  
**Rehearsal and Performance 3**

Students participate in play production and performance at an intermediate level to include featured roles in plays and musicals; and/or backstage crew head on costumes, props, etc. PREREQUISITE: DRMA 112.

**DRMA 151 (5)**  
**Acting Fundamentals**

Presents basic approaches to acting suitable for all levels of experience including the beginning actor. Students actively participate in theatre games, storytelling, short monologues and simple scene work. Satisfies a humanities/fine arts/English requirement for AA degree.

**DRMA 152 (5)**  
**Acting-Building a Character**

Instructs the student in elementary stage techniques for the actor/actress. Focuses on movement, voice, gesture, characteristic mannerisms and stock character types. Satisfies a humanities/fine arts/English requirement for AA degree.

**DRMA 153 (5)**  
**Acting-Text Analysis**

Offers the opportunity for students of varying abilities in acting to approach a role through text analysis, identifying moments, beats and units and applying Actions to those components. Students are assigned monologues and scenes to rehearse and perform concurrently with the text analysis. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

**DRMA 154 (5)**  
**Improvisation 1**

Offers students of all experience levels the opportunity to learn improvisational skills to supplement and enhance acting technique. Students actively participate in theatre games relying heavily on the technique of Viola Spolin, Paul Sills and others. Satisfies a humanities/fine arts/English requirement for AA degree.

**DRMA 155 (5)**  
**Improvisation 2**

Offers students of all experience levels the opportunity to learn improvisational skills to supplement and enhance acting technique. Students who have taken DRMA 154 act as team leaders in exercises. Students actively participate in theatre games relying heavily on the technique of Viola Spolin, Paul Sills and others.

**DRMA 156 (5)**  
**Improvisation 3**

Offers students of all experience levels the opportunity to learn improvisational skills to supplement and enhance acting technique. Students who have taken DRMA 155 act as games facilitators and referees. Students actively participate in theatre games relying heavily on the technique of Viola Spolin, Paul Sills and others.

**DRMA 157 (5)**  
**Audition Techniques for Stage and Film**

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

**DRMA 211 (5)**  
**Rehearsal and Performance 4**

Students participate in play production and performance on an intermediate level to include featured roles in plays and musicals on stage; and/or backstage as costume designer, set designer, props master, or choreographer, etc.

**DRMA 212 (5)**  
**Rehearsal and Performance 5**

Students participate in play production and performance on an advanced level to include leading roles in plays and musicals; or work as stage manager, costume designer, set designer, props master or choreographer, etc. PREREQUISITE: DRMA 211.

**DRMA 213 (5)**  
**Rehearsal and Performance 6**

Students participate in play production and performance on an advanced level to include leading roles in plays and musicals, or work as assistant director, stage manager or lead designer. PREREQUISITE: DRMA 212.

**DRMA 298 (1-5)**  
**Independent Study-Drama**

Encourages students to study and develop independently their special interests in drama. Students meet on a tutorial basis with their instructor. PREREQUISITE: Instructor's permission.

**Early Childhood Education (ECED)**

**ECED 100 (3)**  
**Basic STARS Training**

Offers students the required training set forth by the Washington state Training and Registry System (STARS), a career development system for those who work in child care, early education, and school-age care. Content areas include child growth and development, child guidance, and health and safety. Formerly ECE 100.

**ECED& 105 (5)**  
**Introduction to Early Childhood Education**

Provides an introduction to childhood education from infants through the early elementary years. Includes an overview of various programs, research on effective teaching strategies, cultural and developmentally appropriate practices, resources, and assessment tools. Current issues related to the early learning profession are discussed. Appropriate for those interested in entering the field of early childhood education. Includes optional site visits to various ECE programs. Formerly ECE 101.

## 142 Course Descriptions

### **ECED& 107 (5)** **Health, Safety and Nutrition**

Explores the interrelated roles of the home, school and community in meeting the health, safety, and nutritional needs of young children. Topics include nutrition, common childhood diseases, immunizations, accident prevention, emergency care, and special health problems. Presents referral procedures in using school and community resources to meet the health and safety needs of children. Formerly ECE 140.

### **ECED 112 (3)** **Technology in Education**

Students use technology in a manner related to the education field. Appropriate for experienced, as well as inexperienced computer users. Formerly EDUC 112.

### **ECED& 120 (2)** **ECE Practicum 1-Nurturing Relationships**

Apply theories of best practice in an early learning setting with a focus on developing supportive relationships while keeping children healthy and safe. Students observe and interact with children under the age of six. Satisfies an activity requirement for AA degree. Formerly ECE 103.

### **ECED 124 (2)** **Early Childhood Education Practicum 2**

Provides students practical work experience in an ECE setting with the purpose of applying theoretical knowledge. Students are under the guidance and supervision of a college instructor while working with children under the age of six. PREREQUISITE: ECED& 120 or instructor's permission. Satisfies an activity requirement for AA degree. Formerly ECE 104.

### **ECED 124.1 (3)** **Child Development Associate Practicum 1**

Provides students practical work experience in an educational setting appropriate to the CDA specialization, with the purpose of applying CDA course content. Students are under the guidance and supervision of a college instructor while working with children. PREREQUISITE: Concurrent enrollment in any CDA class. Formerly ECE 103.1.

### **ECED 124.2 (3)** **Child Development Associate Practicum 2**

Provides students practical work experience in an educational setting appropriate to the CDA specialization, with the purpose of applying CDA course content. Students are under the guidance and supervision of a college instructor while working with children. PREREQUISITE: ECE 103.1 and concurrent enrollment in any CDA class. Formerly ECE 104.1.

### **ECED 125 (5)** **Introduction to Child Development Associates**

Introduces the Child Development Associates (CDA) process to help students understand the terminology and requirements needed to earn this ECE teaching credential. Covers the first four functional areas and the first competency goal of the CDA process. Formerly ECE 120.

### **ECED& 132 (3)** **Infants and Toddlers-Nurturing Care**

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

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

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

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

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

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

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

### **ECED 145 (5)** **Foster Parent Scope**

Taught by a team of professionals. Meets the ongoing in-service training needs of licensed foster parents. Gives attention to the foster parent, the foster child, and to developing effective working relationships with the biological parents and caseworker. Emphasizes developing the guidance and discipline strategies necessary to deal with the special needs of foster children.

### **ECED 152 (3)** **Multicultural Books**

Introduces high-quality developmentally-appropriate children's books for early childhood and elementary classrooms. Students read and evaluate multicultural and anti-bias books that portray characters with authentic and realistic behaviors with an emphasis on race, gender, socioeconomic status, ethnicity, age, culture, disability, and family lifestyle. Identifies children's books which may be explicitly and/or subtly biased. Formerly ECE 152.

### **ECED 155 (5)** **Exploring Science and Math**

Focuses on the process of planning, creating, presenting and evaluating hands-on, relevant science and math activities for children in preschool through grade three. Serves as the foundation course for building developmentally appropriate science and math skills that lead to discovery, exploration and understanding. Open-ended science activities involve children at a wide range of developmental levels, connecting to other areas, including math, artistic expression, and social studies. Allows students to work collaboratively in small groups and to practice presenting lessons to young children. Formerly ECE 155.

### **ECED& 160 (5)** **Curriculum Development in Early Childhood Education**

Investigates learning theory, program planning and tools for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth in young children (birth-age 8).

### **ECED 165 (3)** **Art for Children**

Develops and enhances creative expression in children using a process approach. Students plan, present and evaluate developmentally appropriate curriculum units in art for preschool, elementary and special needs students. This lab course provides experiences with creative materials and activities that are multicultural, and build self-esteem, social skills, and small motor skills. Formerly ECE 160.

### **ECED& 170 (3)** **Environments-Young Child**

Students design, evaluate, and improve indoor and outdoor environments which ensure quality learning, nurturing experiences, and optimal development of young children. Formerly ECE 205.

### **ECED 175 (3)** **Music/Movement Activities**

Students plan, present, and evaluate developmentally appropriate curriculum activities in music and movement. Appropriate for teachers who wish to work in a preschool setting, early elementary program or child care center. Students learn about the importance of creative expression, and providing movement and music activities that promote social skills, are multicultural, and self-esteem building. Covers physical development of children through the elementary years with attention toward their fine and gross motor development. Satisfies an activity requirement for AA degree. Formerly ECE 175.

### **ECED& 180 (3)** **Language and Literacy Development**

Literacy skills and teaching strategies are examined and defined at each developmental stage through the four interrelated areas of speaking, listening, writing, and reading. Topics include language acquisition, children's literature, environment and curriculum assessment, and program planning. Formerly ECE 151.

**ECED 181 (4)**  
**Montessori Practicum 1**

Provides students practical work experience in a Montessori classroom setting for the purpose of applying theoretical knowledge. Students are under the guidance and supervision of a Montessori-certified college instructor while working with children between the ages of 3-6. Formerly ECE 181.

**ECED 182 (4)**  
**Montessori Practicum 2**

Provides students practical work experience in a Montessori classroom setting for the purpose of applying theoretical knowledge. Students are under the guidance and supervision of a Montessori-certified college instructor while working with children between the ages of 3-6. PREREQUISITE: ECED 181 or instructor's permission. Formerly ECE 182.

**ECED& 190 (3)**  
**Observation and Assessment**

Collect and record observation and assessment data in order to plan for and support the child, the family, the group and the community. Practice reflection techniques, summarizing conclusions and communicating findings.

**ECED 194 (1-5)**  
**Early Child Education Special Topics 1-3**

Enables students to pursue areas of special interest in the Early Childhood Education field. Students participate in approved regularly scheduled workshops, seminars, or classes sponsored by the college or by a recognized institution or organization, e.g. Child Care Resources, Educational Service District, the Washington Association for the Education of Young Children or local affiliate, health department, or childcare agency. Formerly EDEC 194-196.

**ECED 211 (4)**  
**Introduction to Montessori**

Introduces the Montessori philosophy and method focusing on the 3-6 year old child. Presents practical life and sensorial exercises along with a general overview of Montessori subjects. Uses a contemporary approach to the method with added emphasis on cultural relevancy and anti-bias curriculum practices. Formerly ECE 211.

**ECED 212 (4)**  
**Montessori 2**

Continues the study of the Montessori philosophy and method focusing on the 3-6 year old child. Presents language and math lessons and exercises along with the continued overview of the Montessori classroom. Uses a contemporary approach to the method with added emphasis on cultural relevancy and anti-bias curriculum practices. PREREQUISITE: ECED 211 or instructor's permission. Formerly ECE 212.

**ECED 213 (4)**  
**Montessori 3**

Concludes the study of the Montessori philosophy and method focusing on the 3-6 year old child. Emphasizes cultural subject's developmentally appropriate practices. Students study environment, equipment, materials, and teacher behaviors that support the Montessori Method of education. PREREQUISITE: ECED 212 or instructor's permission. Formerly ECE 213.

**ECED 214 (3)**  
**Early Childhood Education Practicum 3**

Provides second year practical work experience in an ECE setting for the purpose of applying theoretical knowledge. Students work under the guidance and supervision of a college instructor while working with children under the age of six. PREREQUISITE: Instructor's permission. Satisfies an activity requirement for AA degree. Formerly ECE 214.

**ECED 215 (3)**  
**Early Childhood Education Practicum 4**

Provides second year practical work experience in an ECE setting for the purpose of applying theoretical knowledge. Students work under the guidance and supervision of a college instructor while working with children under the age of six. PREREQUISITE: ECED 214 or instructor's permission. Satisfies an activity requirement for AA degree. Formerly ECE 215.

**ECED 220 (2)**  
**Introduction to Sign Language**

Introduces sign language. Presents alphabet and vocabulary using Signed English. Finger-spelling activities include a variety of games and songs. Satisfies an activity requirement for AA degree. Formerly ECE 220.

**ECED 225 (5)**  
**Child Development Associate Course Content**

Helps students meet the requirement for the Child Development Associates (CDA) process, by earning the credits and clock hours required in five of the 13 functional areas. Covers cognitive, communication, creative, self-esteem, and social development. Formerly ECE 190.

**ECED 230 (5)**  
**Child Development Associate Work Ethics**

Helps students meet the requirements for the Child Development Associates (CDA) process, by earning the credits and clock hours specific to the last four functional areas and four of the competency goals. Covers guidance and discipline, working with families, program management, and professionalism. Formerly ECE 200.

**ECED 250 (3)**  
**Early Childhood Education Final Practicum**

Intended as the final course in the ECE degree program, ECED 250 allows students to present and document their abilities and experiences gained while in the ECE program. Students are expected to assume a lead teaching role in which they demonstrate application of all previous coursework emphasizing developmentally and culturally appropriate practices based on NAEYC criteria. PREREQUISITE: Instructor's permission. Formerly ECE 250.

**ECED 260 (5)**  
**CDA Performance Documentation**

Provides students with information to help them prepare their Child Development Associates (CDA) resource file for submittal in order to apply for the nationally-recognized CDA credential. Helps students understand, define, and clarify the requirements established by the CDA Council. Instructor observes and assesses each student at their early learning workplace, documenting the student's performance as it relates to CDA standards. May be taken in conjunction with one of the other CDA courses. Students may use this course to satisfy five credits of practicum in their ECE certificate or degree. PREREQUISITE: ECED 125, 225, 230; or instructor's permission. Formerly ECE 260.

**ECED 265 (4)**  
**Supervised Montessori Teaching**

Provides an opportunity for leadership experience in a Montessori setting with the purpose of applying the Montessori philosophy and method in all areas of the classroom. Students are under the guidance and supervision of a Montessori-certified college instructor working with children between the ages of 3-6. PREREQUISITE: ECED 211, 212, and 213; or instructor's permission. Formerly ECE 265.

**ECED 294-296 (1-5)**  
**Special Topics-Education in Early Childhood 4-6**

Provides students with a basic knowledge to pursue areas of special interest in the field of education. Students participate in approved regularly scheduled workshops and seminars sponsored by the college or by a recognized institution or organization, e.g., Educational Service District, the Washington Association for the Education of Young Children or local affiliate, health department, or childcare agency. Formerly EDEC 294-296.

**ECED 297 (6)**  
**Montessori Intensive**

An intensive overview of the Montessori Method of Education that includes a synopsis of the entire Montessori curriculum for children ages 3-6 years. Through online study, video-viewing, field trips, and four full days of face to face instruction, students will be introduced into both the theory and practice of the system. Course is appropriate for those who are both new and experienced to the study of Montessori.

## 144 Course Descriptions

### Economics (ECON)

#### **ECON 100 (5)** **Economic Principles and Applications**

General survey course stressing basic principles of economic analysis and their applications to current problems and social issues. Intended primarily for students not majoring in business or economics and not intending to take ECON 200. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

#### **ECON 101 (5)** **Economics of Competition**

Study of scarcity, competition, costs, prices, and profits with specific attention to resources, unions, business and government. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

#### **ECON 194 (1-5)** **Special Topics-Economics**

Focuses on a special topic such as inflation, unemployment, population growth, environmental pollution, energy, taxation, discrimination, poverty, crime, health care, or energy. Occasionally, a single course may cover several of these topics. Consists of lectures, class and small group discussions, and student presentations. Students use economic concepts in course presentations. PREREQUISITE: Eligible for ENGL 099 or instructor's permission.

#### **ECON& 201 (5)** **Micro Economics**

Continues the analysis of problems involving scarcity, choice, competition, and cost. Examines the basic principles and models of microeconomics and their application to contemporary issues and problems. Primarily for students who are taking additional courses requiring a working knowledge of microeconomic theory. PREREQUISITE: ECON& 202 and eligible for ENGL& 101; or instructor's permission. Satisfies a social science requirement for AA degree.

#### **ECON& 202 (5)** **Macro Economics**

Introduces economic reasoning. Covers basic economic questions concerning economizing, competition and exchange. Also covers macroeconomics and questions relating to the determination of national income, output, employment and the price level. PREREQUISITE: Eligible for ENGL& 101 and MATH 147; or instructor's permission. Satisfies a social science requirement for AA degree.

#### **ECON 298-299 (5)** **Independent Study-Economics 1-2**

Enables students individually to pursue special interests or opportunities in economics under guidance of an instructor. PREREQUISITE: At least one 200-level course in ECON and instructor's permission.

### Education (EDUC)

#### **EDUC 191 (3)** **The Role of the Paraeducator**

Introduces students to the training needed to work as effective members of an instructional team in the P-12 system based on the Washington State Paraeducator standards. Provides an understanding of direct services to children and youth, including youth with disabilities. Introduces the student to the roles, responsibilities, and techniques of certificated/licensed staff and paraeducators.

#### **EDUC 194 (1-5)** **Education Special Topics 1**

Enables students to pursue areas of special interest in the field of education. Students participate in approved, regularly scheduled workshops, seminars, or classes sponsored by the college or by a recognized institution or organization, e.g., Child Care Resources, Educational Service District, the Washington Association for the Education for Young Children or local affiliate, health department, articulating school districts, or childcare agency.

#### **EDUC 195 (1-5)** **Education Special Topics 2**

Enables students to pursue areas of special interest in the field of education. Students participate in approved, regularly scheduled workshops, seminars, or classes sponsored by the college or by a recognized institution or organization, e.g., Child Care Resources, Educational Service District, the Washington Association for the Education for Young Children or local affiliate, health department, articulating school districts, or childcare agency.

#### **EDUC 196 (1-5)** **Education Special Topics 3**

Enables students to pursue areas of special interest in the field of education. Students participate in approved, regularly scheduled workshops, seminars, or classes sponsored by the college or by a recognized institution or organization, e.g., Child Care Resources, Educational Service District, the Washington Association for the Education for Young Children or local affiliate, health department, articulating school districts, or childcare agency.

#### **EDUC 210 (3-6)** **Assisting Practicum**

Students work with children in the classroom, learning and demonstrating the fundamentals of developmentally-appropriate and culturally-sensitive practices. Students participate online each week, linking the practicum experience to theory. Satisfies an activity requirement for AA degree.

#### **EDUC 240 (3-5)** **Multicultural/Anti-Bias Issues in Education**

Examines attitudes and practices that are explicitly and/or subtly biased on the basis of race, gender, socioeconomic status, ethnicity, age, culture, disability, and family/life-style. Emphasizes the implications for classroom practices and developing a plan for incorporating anti-bias attitudes and practices into an educational setting.

#### **EDUC 245 (2)** **Challenging Behaviors in Young Children**

Presents the basic facts and skills needed to understand and address challenging behaviors and to teach appropriate alternatives. Presents techniques and information drawn from neuroscience, psychology, psychiatry, special education, early care and education, child development, cross-cultural research, and proactive skills programs. Discusses the risk factors, protective factors, and the role of the brain in challenging behavior.

#### **EDUC 293 (2)** **Issues of Child Abuse**

Presents an overview of child abuse and neglect in the U.S. Covers basic definitions, theories of causes, and indicators of abuse. Discusses mandatory reporting laws and forms of intervention along with the importance of taking cultural factors into consideration. Recommended for individuals who work in child care settings and schools.

#### **EDUC 294-296 (1-5)** **Education Special Topics 4-6**

Provides students with a basic knowledge to pursue areas of special interest in the field of education. Students participate in approved, regularly scheduled workshops and seminars sponsored by the college or by a recognized institution or organization, e.g., Educational Service District, the Washington Association for the Education of Young Children or local affiliate; health department, or childcare agency.

#### **EDUC& 115 (5)** **Child Development**

Provides study of developmental tasks and characteristics of infants and children. Course uses current research that includes the influence of culture on development, as well as other environmental influences. Includes observation techniques.

#### **EDUC& 130 (3)** **Guiding Behavior**

Explores the positive guidance and discipline techniques that are developmentally appropriate and culturally sensitive. Discusses theories and styles of discipline with an emphasis on building positive self-esteem in children. Formerly EDUC 130.

#### **EDUC& 150 (3)** **Child, Family and Community Relationship**

Studies the relationship between parents and ECE workers and the impact this relationship has on professionalism. Emphasizes the communication skills and attitudes that allow the ECE worker to develop mutually respectful relationships with parents, co-workers and community. Formerly ECE 235.



**EDUC& 204 (5)**  
**Exceptional Child**

Introduces the characteristics and educational needs of exceptional children. Discusses autism, learning disabilities, communication disorders, ADD, developmental disabilities, vision and hearing impairments, and orthopedic/health impairments. Presents history, theory, and current research. Appropriate for those working with children ages birth through adolescence.

**EDUC& 205 (5)**  
**Introduction to Education with Field Experience**

Acquaints students with the kindergarten through college American education system and the profession of teaching. Appropriate for those wishing to gain a better understanding of schools and teaching, especially those planning to enter the teaching profession. Includes a historical perspective of American education, current research on effective teaching strategies, and a discussion of current issues related to schools, teaching and learning. Also includes 33 hours of a required, supervised placement in an elementary, middle or high school or documentation of previous experience totaling 33 hours.

**Engineering ( ENGR )**

**ENGR 100 (2)**  
**Careers in Engineering**

Explores the functions of engineering and computer science, branches of the professions, educational requirements, and transfer institutions offering these programs. Includes an introduction to the competencies required for programming, problem solving, engineering design, and the planning of a program of study necessary to receive a Bachelor of Science degree in engineering or computer science.

**ENGR& 104 (5)**  
**Introduction to Design**

Introduces design and communication principles using an engineering project approach. Stresses teamwork, design process, creative and analytical thinking, quantitative analysis, professionalism and ethics, social, economic and political context, and open-ended problems. Introduces the engineering design process by building group skills, understanding the effects of different learning styles, producing strategies for innovation, and fostering creativity in problem solving. Includes design projects, journal keeping, professionalism and ethical issues, and oral presentations. Satisfies a natural science requirement for AA degree.

**ENGR 106 (3)**  
**Introduction to Engineering Problems**

Introduces dimensional analysis and vector algebra and their use in solving engineering problems. Uses Newton's laws in problems involving forces, moments, acceleration and velocities. Discusses problem format, significant figures, statistics and error analysis, and their role in the design process. PREREQUISITE: MATH& 142 or equivalent. Satisfies a natural science requirement for AA degree.

**ENGR& 114 (5)**  
**Engineering Graphics**

A beginning lab course focusing on visualization, sketching, and 3-D parametric modeling computer aided drafting (CAD). Introduces the basic design competencies and graphical solutions of spatial problems using basic engineering drawing principles. Provides skills in graphic communication and visualization of 3-D objects, as well as design and problem solving skills. Recommended for all beginning engineering students.

**ENGR 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. Sets the context for further study in numerical methods and computer science programming languages. PREREQUISITE: MATH& 142 or concurrent enrollment; or instructor's permission. Cross-listed with CS 120.

**ENGR 140 (5)**  
**Engineering Materials**

Investigates the basic principles relating to the structure and properties of materials used by practicing engineers. Provides discussion of the properties of organic and inorganic materials as related to their atomic, molecular, and crystalline structure. PREREQUISITE: CHEM& 161 or concurrent enrollment. Satisfies a natural science requirement for AA degree.

**ENGR 177-179 (1-12)**  
**Engineering Work Experience 1-3**

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.

**ENGR 198 (1-5)**  
**Independent Study-Computer Programming 1**

Encourages students to study independently and develop their special interest in computer programming. PREREQUISITE: Instructor's permission.

**ENGR 199 (1-5)**  
**Independent Study-Computer Programming 2**

Students design, build and test a special project. With the approval of an engineering instructor, students select the project. Course permits students to explore a field of special interests under the guidance of an instructor. PREREQUISITE: Instructor's permission.

**ENGR& 204 (5)**  
**Electrical Circuits**

Introduces basic electrical circuits and systems. Topics include basic analysis techniques, nodal and mesh analysis, and Thevenin and Norton equivalent circuits. Applies linear differential equations to basic circuits. Concurrent enrollment in MATH 238 is desirable. PREREQUISITE: MATH& 153 and PHY& 222. Satisfies a natural science requirement for AA degree.

**ENGR& 214 (5)**  
**Statics**

A fundamental course in the mechanics of rigid bodies in static equilibrium conditions. Solves practical engineering problems involving the loads carried by structural components using Static principles, vector notation and calculus for mathematical modeling. Teaches principles and their limitations within the context of engineering applications and the engineering design process. PREREQUISITE: ENGR 106 and MATH& 152; or concurrent enrollment. Satisfies a natural science requirement for AA degree.

**ENGR& 215 (5)**  
**Dynamics**

An in-depth treatment of the dynamics of particles and rigid bodies using vector analysis. Topics include kinematics, kinetics, momentum, and energy principles for both particles and rigid bodies. A required course for numerous engineering programs. PREREQUISITE: ENGR& 214, MATH& 152 and PHYS& 221. Satisfies a natural science requirement for AA degree.

**ENGR& 224 (5)**  
**Thermodynamics**

Introduces the basic principles of thermodynamics. Covers energy transformations, work and heat, ideal and real gases, first and second laws of thermodynamics, and applications to engineering systems. PREREQUISITE: CHEM& 161 and MATH& 152, or PHYS& 221. Satisfies a natural science requirement for AA degree.

**ENGR& 225 (5)**  
**Mechanics of Materials**

A rigorous investigation of the concepts of stress and deformation in structural members. Focuses on the development of basic relationships between loads, stress, and deformation in members such as beams, columns, shafts, and tension members. PREREQUISITE: ENGR& 214; and MATH& 153 or concurrent enrollment. Satisfies a natural science requirement for AA degree.

**ENGR 250 (5)**  
**Numerical Methods Using MATLAB**

Introduces students to the use of computers and the MATLAB program to solve engineering problems using applied numerical method. Students learn how to implement important and fundamental numerical methods, with applications from a variety of courses, including the engineering mechanics sequence (ENGR& 214, ENGR& 225 and ENGR& 215), Thermodynamics (ENGR& 224), and Fundamentals of Electrical Engineering (ENGR& 204). PREREQUISITE: MATH& 254 and one of the following: CS/ENGR 120 or CS& 131 or &141.

## 146 Course Descriptions

### English (ENGL)

#### **ENGL 081 (5) Fundamentals of Written Communication**

A writing course that focuses on the skills designed to prepare students for English 099 or career/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 090 (3) Spelling Improvement**

For students who want to increase their proficiency in spelling. Students learn to apply basic spelling rules to sound out words that are spelled phonetically, and to memorize commonly misspelled words that are not spelled entirely by sound. Includes lecture, discussion, class exercises, homework review, and testing in each concept-based unit.

#### **ENGL 091 (3-5) Vocabulary Improvement**

Offers students the opportunity to improve their vocabularies. Lectures and discussions introduce basic techniques and guidelines for vocabulary development.

#### **ENGL 092 (1-2) Composition Skills: Mechanics and Paragraphs**

An individualized course for improvement of skills in composition. Students work to improve punctuation, sentence structure, paragraph writing, short essay construction or other fundamental composition techniques. Students strengthen writing skills by reading examples of good writing as illustrated in published essays. PREREQUISITE: Eligible for ENGL 081. This is a pass/no-credit course.

#### **ENGL 098 (5) Bridge to College English**

A skill building class to help students move from ENGL 081 and READ 094 to college-level English skills classes. Students learn to use basic skills to improve reading skills in vocabulary, fluency and comprehension and to improve writing skills in sentence, paragraph and essay construction. PREREQUISITE: ENGL 081 or 100 or READ 094 or instructor's permission.

#### **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. Formerly ENGL 100.

#### **ENGL& 101 (5) English Composition I**

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: Appropriate Reading COMPASS score; or a minimum of 2.0 in ENGL 099, and a minimum of 2.0 in READ 104. Note: Some students from certain school districts are eligible for the transcript placement option. Satisfies basic skills requirement for AA degree.

#### **ENGL 103 (1-3) Composition Skills: College Writing**

An individualized course for improvement of skills relating to drafting, revising and presenting focused writing assignments including essays, reports, and other academic writing assignments. Students may also strengthen writing skills by reading examples of good writing as illustrated in published essays. PREREQUISITE: Eligible for ENGL 099. This is a pass/no-credit course.

#### **ENGL 105 (5) Grammar and Usage**

Teaches the structure of sentences through analysis of the five basic patterns and their alterations. Principles of usage and punctuation are presented as they relate to the structure of the sentence. Students may take this course to improve their grammar and usage and their editing skills.

#### **ENGL 106 (5) Vocabulary Mastery**

For transfer and pre-professional students who wish to increase their vocabularies and develop more effective vocabulary skills. Emphasizes increasing knowledge of vocabulary to enhance reading, writing, and speaking. PREREQUISITE: ENGL 091, eligible for READ 104, or instructor's permission.

#### **ENGL 107 (1) Elements of Composition**

Offers instruction in discrete elements of effective academic writing, such as punctuation usage, sentence-level clarity, essay structure, documentation and source composition as determined by programmatic need or demand.

#### **ENGL 108 (1-2) Medical Terminology**

Emphasizes vocabulary skills using medical terminology and phrases. Students learn to read, pronounce and spell medical terms correctly. Recognize and understand the meaning of medical terms through learning roots, prefixes and suffixes, and word-building systems. Designed primarily for Health Occupations and Court Reporting program majors; however, course is useful for anyone desiring a background in the language of medicine. PREREQUISITE: ENGL 090, spelling pretest score of 80 percent, or instructor's permission.

#### **ENGL 109 (5) Writing for Trades and Career/Technical Degrees**

Teaches critical reading and clear, effective, practical college writing. Readings are keyed to career/technical topics. Writing assignments reflect actual work products, including letters, memoranda, surveys, reports, evaluations, and proposals. PREREQUISITE: ENGL 081, or eligible for READ 104, or instructor's permission.

#### **ENGL& 112 (5) Introduction to Fiction**

Increases understanding and appreciation of fiction through intensive reading and analysis of short stories. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

#### **ENGL& 113 (5) Introduction to Poetry**

Increases understanding and appreciation of poetry through a study of poetic techniques and through extensive readings in various poetic forms by selected poets. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

#### **ENGL& 114 (5) Introduction to Drama**

Increases understanding and appreciation of drama through extensive reading and analysis. Readings include, but not limited to, plays from Greek theater, plays from the Renaissance, and plays from modern playwrights. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

#### **ENGL 115 (5) Introduction to Novels**

Study of various novels with emphasis on how to read, enjoy and understand the works. Includes selected works of significant English, European, and American novelists from Cervantes to the present. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**ENGL 126 (5)**  
**Writing: Humanities**

A composition course with readings designed to teach research-based writing in the disciplines of the humanities. Continues to develop the reading and writing skills taught in ENGL & 101, but emphasizes the development of academic research and writing skills. Students engage in critical thinking throughout the course, which includes analysis, interpretation, and evaluation of humanities texts and the documentation and synthesis of multiple sources and evidence. PREREQUISITE: A grade of 2.0 in ENGL& 101. Satisfies basic skills requirement for AA degree.

**ENGL 127 (5)**  
**Writing: Social Science**

A composition course with readings designed to teach research-based writing in the social sciences. Continues to develop the basic reading and writing skills taught in ENGL& 101, but emphasizes the development of academic research and writing skills. Students engage in critical thinking, which includes the analysis, interpretation, evaluation, documentation, and synthesis of multiple sources and evidence. PREREQUISITE: A grade of 2.0 or higher in ENGL&101. Satisfies basic skills requirement for AA degree.

**ENGL 128 (5)**  
**Research Writing: Science/Engineering/  
Business**

A composition course with readings designed to teach research-based writing in the sciences, engineering and business. Continues to develop the basic reading and writing skills taught in ENGL& 101, but emphasizes the development of academic research and writing skills. Students engage in critical thinking which includes the analysis, interpretation, evaluation, documentation, and synthesis of multiple sources and evidence. PREREQUISITE: A grade of 2.0 or higher in ENGL& 101. Satisfies basic skills requirements for AA degree.

**ENGL 160 (5)**  
**Literature By and About Women**

Introduces writings by and about women. Studies cultural/historical concepts and paradigms that have impacted women's concepts of them, of their relationships to men, and of their relationships to the general cultures that surround them. Introduces students to writers from various literary periods and from various nations and cultures. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

**ENGL 161 (5)**  
**Cultures of Desire**

Examines literary and cultural representations of desire-including love, the erotic, sexuality, the body, the spirit, and community-across various traditions, historical periods, and locations. Literal text may be studied comparatively with mythologies, religions, scientific discourses, the arts, popular culture, and/or cyberspace. Critical questions include language, identity, hegemony, diversity, and/or freedom, among others. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree

**ENGL 163 (5)**  
**The Poetics of Rap and Hip Hop**

Deals with the elements of literature as applied to rap and hip hop. In addition to detecting use of poetic characteristics in lyrics, students analyze meaning and craft to explore the connections between rap music and poetry. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

**ENGL 164 (5)**  
**Film as Literature**

Students view and then write about films through a literary analysis lens using both literary and film terms and techniques in order to interpret and analyze them. Students discuss and write about the films focusing on themes, symbolism, genre, social and historical context, bias, points of view, plot development, and character development. Course also uses scripts and a film as literature textbook for deeper exploration of the films. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**ENGL 165 (5)**  
**Introduction to the Myths of the World**

Introduces the concepts of mythology with an overview of significant world myths—western and non-western, ancient and modern, oral and textual. Explores myths thematically and critically, addressing such aspects as identity, gender, religion and spirituality, ecological concerns, political and social structures. Discusses major critical approaches including psychological, structural, anthropological, literary, and indigenous theories for interpreting myth. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

**ENGL 168 (5)**  
**Introduction to Irish Literature**

Presents the main themes of Irish literature from its ancient bardic and epic beginnings to current concerns of politics, gender, and cultural identity. Placing the poetry, drama, short stories and novels in historical and cultural context, including English colonization and the Celtic Revival, we will explore how Irish literature has maintained a people's identity, as well as challenged external hegemony. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

**ENGL 180 (5)**  
**Children's Literature**

Deals with the elements of literature as applied to children's books ranging from wordless picture books to junior high level reading. Specific subjects include character, plot, setting, theme, point of view, style, and tone as applied to poetry and prose written for children. Addresses visual communication through analysis of illustrations accompanying the texts. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**ENGL 181 (5)**  
**Literary Approaches to Pop Culture**

Presents a critical view of literary theories applied to popular culture in a variety of forms (literature, television, advertising, music). Students study examples of works of popular culture and produce their own literary and social commentary in a variety of forms. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**ENGL 183 (5)**  
**Literary Approach to Mystery/Detective  
Fiction**

Presents a critical view of literary theories applied to the genre of mystery/detective texts. Students examine themes, conventions, and cultural assumptions expressed through classic or contemporary texts. Students then produce their own literary commentary on the social, cultural, political, psychological, etc. The commentary and texts may be in traditional or nontraditional form, including written, oral, visual, multimedia, etc. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**ENGL 185 (5)**  
**Literary Approach to the Bible**

Students study the Bible as the main literary text. Students also study the history and cultures of biblical and neighboring peoples. Students understand and apply a variety of literary approaches and concepts such as archetypal, traditional, feminist, symbolic/figurative, and paradigmatic. Readings focus on the Hebrew Bible with a few samples from the New Testament. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**ENGL 187 (5)**  
**Paradise and Hell as Literary Concepts**

A study of the cultural and artistic visions (secular and religious) of heaven and hell. Begins with a study of theoretical explorations of the human need to conceptualize ideal and abhorrent worlds, including, but not limited to, those of Morse Peckman, Northrope Frye, D.H. Lawrence, and Joseph Campbell. Class also studies and analyzes visions of heaven and hell in paintings, song lyrics, essays, poems, and prose fiction from various cultures and cultural epochs. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

## 148 Course Descriptions

### **ENGL 190 (5)** **Adolescent Literature**

Deals with elements of literature as applied to adolescent books ranging from junior high level reading to senior high level reading. Specific subjects include character, plot, setting, theme, point of view, style, and tone as applied to poetry and prose written for adolescents. Addresses visual communication through analysis of illustrations accompanying the texts. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ENGL 194 (1-5)** **Special Studies-English**

Course content varies each time it is offered. May include such studies as Literature of the American West, Afro American Literature, contemporary novels or poets or other topics related to literature or media where need and interest are expressed.

### **ENGL 199 (1-5)** **Independent Study-English 1**

Encourages a student to work on a project related to a specific English course. The project must increase the student's knowledge in the specified course. Specific requirements and directions for writing a proposal are on file with the English Division. PREREQUISITE: Instructor's permission.

### **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 & 101. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ENGL & 226 (5)** **British Literature I: 7th to 16th Century**

An historical and critical survey of selected works of English literature from the seventh through the 16th centuries. Readings may include selections from Beowulf, The Canterbury Tales, The Alliterative Revival, early English drama, and early English prose and lyric poetry. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ENGL & 227 (5)** **British Literature II: 17th to 18th Century**

An historical and critical survey of selected works of English literature of the 17th and 18th centuries, including the metaphysical and neoclassical movements and their historical contexts. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ENGL & 228 (5)** **British Literature III: 19th to 21st Century**

An historical and critical survey of selected works of English literature of the 19th through the 21st centuries, including representative writers of Romanticism, modernism and postmodernism and their historical context. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ENGL & 236 (5)** **Creating Writing I**

A discussion and application of the principles and techniques used in writing fiction and poetry. Development of analytical skills to enhance the writing of fiction and poetry. Includes readings of sample fiction and poetry. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ENGL & 237 (5)** **Creative Writing II**

Develops skills in using techniques for writing poetry (metaphor and simile, use of diction, irony, imagery, sound, and structure) and develops skills in using techniques for writing fiction (generating ideas; controlling viewpoint; and exploring development of theme, tone, symbols, and style). PREREQUISITE: ENGL & 236. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ENGL 239 (3)** **Esplal Workshop**

Course leads students through the process of creating a student-centered literary and art journal for Green River. Students are assigned to specific tasks and charged with all elements of the production of a journal of student fiction, poetry, and artwork/photography.

### **ENGL & 244 (5)** **American Literature I: American Literature to 1860**

A study of the development of American literature from early Native American storytellers to 1860, focusing on Puritanism, the Enlightenment, Romanticism, and Transcendentalism as literary movements. Covers cultural, historical, and literary concepts that characterize these movements. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ENGL & 245 (5)** **American Literature II: Civil War to WWI**

A study of American literature from the Civil War to World War I, with special attention given to the rise of realism and naturalism, including the works of Whitman, Dickinson, Twain, Chopin, Crane, Norris and Gilman. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ENGL & 246 (5)** **American Literature III: WWI to Present**

A study of American literature in the modern world. Course may include the works of Baldwin, Cisneros, Collins, Ellison, Frost, Hemingway, Hughes, Oliver, Porter, Rich, Sexton and Walker. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **ENGL 247 (5)** **American Ethnic Literature**

A study of American literature by ethnic writers, including selections from Native American, African American, Latino, Asian American, and immigrant writing. 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 and the diversity course requirements for AA degree.

### **ENGL 248 (5)** **African-American Literature**

A survey of African-American literature from its colonial origins through the 21st century. Course requires close reading and written interpretation from among the following genres: African-American fiction, poetry, drama, essays, songs, and film. Focuses on such historical periods/movements as abolitionism and the slave narrative, Reconstruction, the Harlem Renaissance, the Black Arts Movement, and postmodernism. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirements 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 & 101. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

### **ENGL & 254 (5)** **World Literature I: Ancient World**

An historical and critical survey of selected works of the ancient world with representative writing from a diversity of places and periods. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**ENGL& 255 (5)**  
**World Literature II: 7th to 18th Century**

An historical and critical survey of selected works of world literature of the seventh through the 18th centuries from a diversity of cultures. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**ENGL& 256 (5)**  
**World Literature III: 19th to 21st Century**

An historical and critical survey of selected works of World literature (focusing on European and non-western) of the 19th through the 21st centuries from a diversity of cultures. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

**ENGL 257 (5)**  
**Non-Western World Literature**

A study of various genres of literature from the non-Western world, including Africa, Asia, the Middle East, the Caribbean, and/or Latin America. 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 and the diversity course requirements for AA degree.

**ENGL 299 (1-5)**  
**Independent Study-English 2**

Encourages students to work on a project in a field of their special interest in English. Students must complete course work in the area of the proposed independent study. Specific requirements and directions for writing a proposal are on file with the English Division. PREREQUISITE: Permission of division chairperson and instructor supervising project.

**ENGL 335 (5)**  
**Advanced Technical Writing**

Prepare students to communicate effectively in a professional environment. Students become familiar with the processes, forms, and styles of technical writing as they create various documents, including instructions, proposals, and discipline-specific and/or client-based research projects. Emphasizes the purpose and audience, as well as clarity, concision, and document design. PREREQUISITE: Admission into a bachelor's program, ENGL& 101 and instructor's permission.

**English for Speakers of Other Languages (ESOL)**

**ESOL 010 (1-15)**  
**English for Speakers of Other Languages-Literacy**

Beginning-level of ESOL for students who are permanent residents of Washington State. These students have limited literacy or are non-literate in their own language. Students begin to learn letters and numbers. Students learn some basic words and phrases. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**ESOL 011 (1-18)**  
**English for Speakers of Other Languages Level 1**

Low-beginning level of ESOL for students who are permanent residents of Washington State. These students are generally literate in their first language, but have no English or limited English. These students may have some verbal skills, but little or no reading or writing skills. Students study the alphabet, phonics, the calendar, numbers, family vocabulary and communicating basic personal information both orally and in writing. Students learn organizational skills and learn to function in a classroom setting. PREREQUISITE: ESOL 010, placement test, and instructor's permission. This is a pass/no-credit course.

**ESOL 012 (1-18)**  
**English for Speakers of Other Languages Level 2**

Beginning-level of ESOL for students who are permanent residents of Washington State. Students study time, money, family, be verbs, and other common present tense verbs. Students begin to understand and use more authentic speech in describing their daily activities. Students read short simplified paragraphs on everyday subjects and write simple sentences on familiar topics. Students learn organizational skills and learn to function in a classroom setting. PREREQUISITE: ESOL 011, placement test, and instructor's permission. This is a pass/no-credit course.

**ESOL 013 (1-18)**  
**English for Speakers of Other Languages Level 3**

High-beginning level of ESOL for students who are permanent residents of Washington State. Students begin to understand simple spoken or written learned phrases and new phrases containing familiar vocabulary. Students express essential survival needs including asking questions and communicating personal information. Students write short sentences on familiar subjects and fill out basic personal information on forms. Students learn organizational skills and learn to function in a classroom setting. PREREQUISITE: ESOL 012, placement test and instructor's permission. This is a pass/no-credit course.

**ESOL 014 (1-15)**  
**English for Speakers of Other Languages Level 4**

Low-intermediate level of ESOL for students who are permanent residents of Washington State. Students listen to and talk about familiar topics relating to their community and work, and read multi-paragraph texts and simple stories. Students use vocabulary and grammar to write a narrative paragraph on familiar subjects, and express their needs including asking questions and communicating personal information. PREREQUISITE: ESOL 013, placement test, and instructor's permission. This is a pass/no-credit course.

**ESOL 015 (1-15)**  
**English for Speakers of Other Languages Level 5**

Intermediate level of ESOL for students who are permanent residents of Washington State. Students listen to English on a wide-range of topics relating to their community and work and participate in small-group conversations. Students read simplified materials, begin to read independently, and write simple multi-paragraph narratives. Students use vocabulary and grammar to speak and write effectively. Students use language-learning strategies to assume a productive role in their community, participate fully in family and work situations, and succeed in pursuit of vocational or academic goals. PREREQUISITE: ESOL 014, placement test, and instructor's permission. This is a pass/no-credit course.

**ESOL 016 (1-15)**  
**English for Speakers of Other Languages Level 6**

Advanced level of ESOL for students who are permanent residents of Washington State. Students listen to native-speaker level of English for authentic purposes, participate in discussions, and give short presentations. Students read extended English passages and write basic essays on many topics. Students complete a variety of projects to increase their language skills in preparation for transitioning to work, community life, or further education. PREREQUISITE: ESOL 015, placement test and instructor's permission. This is a pass/no-credit course.

**ESOL 017-019 (1-10)**  
**Community-Based ESOL Level 1-3**

Low-beginning level community-based English class for ESOL students who are permanent residents of Washington State. These students are generally literate in their first language, but have no English or limited English. These students may have some verbal skills, but little or no reading/writing skills. Students study phonics, reading, writing, speaking and listening. Students learn organizational skills, how to function in a classroom, and work collaboratively with classmates, aides and teachers. PREREQUISITE: Placement test and instructor's permission. This is a pass/no-credit course.

**ESOL 020 (1-15)**  
**English for Speakers of Other Languages-Multi-Level 4**

Low-intermediate level of ESOL for students who are permanent residents of Washington State. Students work on developing fluency in all language skills. Students listen to and talk about familiar topics relating to their community, work, and school. Students read multi-paragraph texts and simple stories. Students expand their vocabulary on familiar subjects. For writing, students compose and begin to edit simple paragraphs on familiar topics. PREREQUISITE: ESOL 013, placement test, and instructor's permission. This is a pass/no-credit course.

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### **ESOL 021 (1-15)** **English for Speakers of Other Languages—Multi-Level 5**

Intermediate level of ESOL for students who are permanent residents of Washington State. Students work on developing fluency and accuracy in all language skills. Students listen to English on a wide range of topics relating to their community, work and school and participate in small-group conversations. Students read extended texts and stories independently and begin to summarize main ideas. Students begin to use context to learn new vocabulary. For writing, students compose, revise and edit simple multi-paragraph narratives. PREREQUISITE: ESOL 014, placement test, and instructor's permission. This is a pass/no-credit course.

### **ESOL 022 (1-15)** **English for Speakers of Other Languages—Multi-Level 6**

Advanced low-level of ESOL for students who are permanent residents of Washington State. Students work on developing fluency and accuracy in all language skills. Students listen to English on a wide range of topics for authentic purposes and participate in discussions. Students read extended texts and stories and identify and summarize main ideas. Students use context to learn new vocabulary and learn related words and word families. For writing, students compose, revise and edit extended narratives on many topics. PREREQUISITE: ESOL 015, placement test, and instructor's permission. This is a pass/no-credit course.

### **ESOL 031-033 (1-5)** **English for Speakers of Other Languages—Conversation Levels 1-3**

Provides low-beginning ESOL students with language practice opportunities to share ideas, opinions and experiences. Students become active participants in conversations and improve their ability to manage conversations. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **ESOL 046 (1-5)** **English Grammar for Level 2**

Helps ESOL students to understand and use English grammar for discussion and writing. Students study grammatical forms and learn to communicate clearly and effectively for a variety of purposes in both academic and social contexts. For students who enjoy learning a language by studying and using the rules of language. PREREQUISITE: Eligible for ESOL 012, or instructor's permission. This is a pass/no-credit course.

### **ESOL 047-049 (1-5)** **ESOL Conversation Support Level 4-6**

Provides additional support for current students in ESOL 014 who need to improve their conversational skills. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **ESOL 050-056 (1-5)** **Technology Assisted Language Learning Levels 1-6**

Provides students at all levels of English with opportunities to learn and use English through technology, extensive reading, and conversation groups. As they use technology, ESOL students enhance the ESOL language instruction they receive in other classes, and discover new ways to improve their language learning skills. Students become familiar with the basic computing skills needed as a worker, community member, family member and student. Students study individually, with the instructor, in small groups, and together as a whole class. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **ESOL 062 (1-5)** **ESOL Writing Support Level 2**

For current students in ESOL Level 2 who want to improve their writing skills, and especially for students who have stronger speaking/listening skills than reading/writing skills for their level. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **ESOL 063 (1-5)** **ESOL Writing Support Level 3**

For current students in ESOL Level 3 who want to improve their writing skills, and especially for students who have stronger speaking/listening skills than reading/writing skills for their level. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **ESOL 064 (1-4)** **ESOL Writing Support Level 4**

For current students in ESOL 014 who want to improve their writing skills, and especially for students who have stronger speaking/listening skills than reading/writing skills for their level. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **ESOL 065 (1-4)** **ESOL Writing Support Level 5**

For current students in ESOL 015 who want to improve their writing skills, and especially for students who have stronger speaking/listening skills than reading/writing skills for their level. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **ESOL 066 (1-4)** **ESOL Writing Support Level 6**

For current students in ESOL 016 who want to improve their writing skills, and especially for students who have stronger speaking/listening skills than reading/writing skills for their level. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **ESOL 072-074 (1-15)** **ESOL Intensive Writing Level 2-4**

For ESOL Level 2 students who have much stronger speaking/listening skills than reading/writing skills for their level. It is for students who want to improve their writing skills. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **ESOL 091 (1-15)** **Special Topics 1**

Prepares ESOL students to enter an I-BEST program. Course content varies each time it is offered. It may include English language skills for specific content areas such as Early Childhood Education, Welding, or Health Services. For ESOL students in Level 1. This is a pass/no-credit course.

### **ESOL 092-093 (1-15)** **Special Topics Levels 2-3**

Prepares ESOL students to enter an I-BEST program. Course content varies each time it is offered. It may include English language skills for specific content areas such as Early Childhood Education, Welding, or Health Services. For ESOL students in Levels 2-3. PREREQUISITE: Appropriate assessment score and instructor's permission. This is a pass/no-credit course.

### **ESOL 094-096 (1-15)** **Special Topics Levels 4-6**

Course content varies each time it is offered. It may include English language skills for specific content areas such as STARS certification for childcare workers, English language skills for Welding (integrated or in cooperation with the career/technical program), or English language skills for Health Services. For ESOL students in Levels 4-6. PREREQUISITE: Appropriate assessment score and instructor's permission. This is a pass/no-credit course.

## **Environmental Science (ENV S)**

### **ENV S 194 (1-5)** **Special Topics-Environmental Science**

Investigates the interaction of physical and biological systems in the environment. Examines the scientific principles which are involved in modern environmental problems and issues. Scientific topics could include energy, climate, soils, water, animal studies, local plants, and the dynamics of plants and animal populations and the communities they form. For students wishing to obtain a broad picture of human activities and their relationship to basic processes of ecosystems. Classes are conducted through lectures, class and group discussion and/or readings. May be repeated when a different topic is presented. This class does not meet the lab requirement. PREREQUISITE: Eligible for ENGL& 101.

### **ENV S 204 (5)** **Natural Science and the Environment**

Investigates the interaction of physical and biological systems in the environment. Examines the scientific principles which are involved in modern environmental problems and issues. Scientific topics could include energy, climate, soils, water, animal studies, local plants, and the dynamics of plants and animal populations and the communities they form. For students wishing to obtain a broad picture of human activities and their relationship to basic processes of ecosystems. This class does not meet the lab requirement. PREREQUISITE: ENGL& 101 or eligible for ENGL& 101; and MATH 097 with a grade of 2.0 or higher; or eligible for college-level Math. Satisfies a natural science requirement for AA degree.

**Film (FILM)**

**FILM 120 (5)**  
**The Art of the Film**

Course is an introduction to the art of film. The goal is to instill an appreciation for film as an art form. Course looks at the breadth of film as an art form by covering aspects of film from the style, theme, genre, cinematic techniques, etc. *Satisfies a humanities/fine arts/English requirement for AA degree.*

**FILM 121 (5)**  
**Contemporary American Film**

Examines contemporary American movies: directors, actors, style, and themes of cultural diversity. Focuses on the examination of popular films for greater understanding of cinematic aesthetics and greater awareness of how movies today both reflect and influence values of our culture, with special focus on diversity of gender, ethnicity and class. *Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.*

**FILM 122 (5)**  
**Introduction to Film: Genres**

Introduces film genres such as thrillers, film noir, melodramas, westerns, documentary or culturally-specific films. Examines the literary, mythic and historical aspects of the different genres. Examines the social and political significance of different genres through the use of specific films watched in class. *PREREQUISITE: Eligible for ENGL 100 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly HUMAN 272*

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

Explores the relationship between film and cultural interpretation and understanding of Latin America. Considers the history of cinema in Latin America. Focuses on how film has been used to interpret Latin American culture and how we can use it to understand Latin American past and present with special emphasis on discussing the complex history and social problems of the region. Also explores common stereotypes with which Latin America has been portrayed in main stream U.S. movies. No knowledge of Spanish language required. *PREREQUISITE: Eligible for ENGL 099. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree. Cross-listed with HUMAN 191.*

**French (FRCH)**

**FRCH& 121 (5)**  
**French I**

Begins the systematic study of French with an emphasis on speaking and listening. Includes basic grammar, vocabulary, reading, writing, and conversation practice. Students acquire basic knowledge of the diversity of the French speaking world, its history, and cultures. *PREREQUISITE: No previous background in French, or no more than one year of high school French, or no more than two years of high school French with a "C" average or less. Eligible for ENGL 100. Satisfies a humanities/fine arts/English requirement for AA degree.*

**FRCH& 122 (5)**  
**French II**

A systematic study of French using the four basic skills of listening, speaking, reading, and writing. Students acquire basic knowledge of the diversity of the French speaking world, its history, and cultures. *PREREQUISITE: A grade of 2.0 or higher in FRCH&121 or equivalent with instructor's permission. Eligible for ENGL 100. Satisfies a humanities/fine arts/English requirement for AA degree.*

**FRCH& 123 (5)**  
**French III**

Completion of basic system grammar, vocabulary, reading, writing, and conversation. Students acquire basic knowledge of the diversity of the French speaking world, its history, and cultures. Fulfills University of Washington College of Arts and Sciences graduation requirement. *PREREQUISITE: A grade of 2.0 or higher in FRCH& 122 or equivalent with instructor's permission. Eligible for ENGL 100. Satisfies a humanities/fine arts/English requirement for AA degree.*

**FRCH& 221 (5)**  
**French IV**

Systematic review of French grammar. Intensive practice in listening, speaking, reading, and writing, with special emphasis on reading and writing. Oral practice through drills and discussion of selected pieces of French written materials. *PREREQUISITE: FRCH& 123 or placement by language instructor and eligible for ENGL 100. Satisfies a humanities/fine arts/English requirement for AA degree.*

**Geographic Information Systems (GIS)**

**GIS 102 (3)**  
**Exploring GIS Spatial Technology**

Motivates and encourages students to explore and learn GIS Spatial Technology (GST) in any discipline. Students explore the uses of GST software (GIS, GPS, and Remote Sensing) and methods for applying GIS technology to the student's field of interest. Exploration involves navigating through GST spatial technology software, including ArcExplorer, ArcCatalog and Arcmap; and to see practical applications such as analysis of the causes of natural disasters e.g. wildfire, tsunami, and Hurricane Katrina. An exciting course for everyone interested in learning and exploring 21st century spatial thinking technology. Explores the GIS profession, types of jobs in the field, required skills, and GIS programs offered at Green River and four-year institutions.

**GIS 104 (5)**  
**Introduction to Geospatial Technology**

Provides an introduction to geospatial technology including geographic information systems (GIS), remote sensing (RS), global positioning systems (GPS), and other emerging online mapping technologies. Explores the GIS profession, types of jobs in the field, required skills, and GIS programs offered at Green River and four-year institutions. Course is designed for everyone interested in learning how to apply geospatial technology in their field of study. Covers the wide range of geospatial technology software including Google Earth, GPS, ArcGIS Explorer online, web mapping, and ArcGIS desktop, including ArcMap and ArcCatalog.

**GIS 121 (5)**  
**Introduction to Geographic Information Systems**

Provides an overview of ArcGIS tools and three principal GIS software components: ArcMap, ArcCatalog, and ArcToolbox. Provides hands-on experience with ArcGIS tools and functionality. Provides experience working with various data models including shapefiles, coverages, geodatabases, and grids. Students create, manage, analyze, and display georeferenced data. Emphasizes the value of effective communication through the use of georeferenced datasets and finished maps. *PREREQUISITE: Concurrent enrollment in any of the following: BTAC 100, D T 100, GIS 102, NATRS 172; or instructor's permission.*

**GIS 141 (3)**  
**Spatial Statistics**

Covers the basic concepts of spatial statistics and the tools available in the core of ArcGIS software. Covers differences between a-spatial and spatial statistics, and explains specific methods that use distance, space, and spatial relationships. Explains ways of measuring spatial processes, spatial distributions of features, and means to determine if any data has any spatial patterns (random, clustered or dispersed) using the ArcGIS spatial statistics tools. These tools assist decision-makers to visualize results and understand the concepts of data relationship, allowing them to make decisions with a higher level of confidence. *PREREQUISITE: GIS 121 or instructor's permission.*

**GIS 177-179 (1-12)**  
**GIS Work Experience 1-3**

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. *PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.*

**GIS 192 (5)**  
**GIS for Natural Resources**

Provides an overview with hands-on experience with ArcGIS tools and functionality in Natural Resources applications. Emphasizes the three principal components of ArcGIS: ArcMap, ArcCatalog, and ArcToolbox. Provides hands-on practical exercises using field data in various formats including shapefiles, coverages, geodatabase feature classes, and raster data. Explores how to use geospatial datasets already available and how to create, modify or build new databases, as well as how to download data from the Internet. Students create, manage, analyze, and display georeferenced datasets and finished maps. *PREREQUISITE: Second year Natural Resources student completed one of these courses: GIS 102, GIS 104, NATRS 172 and MATH 072 or MATH 097 or instructor's permission.*

## 152 Course Descriptions

### GIS 194 (1-5) Special Topics-GIS

Permits students to pursue a special GIS topic, under the guidance of an instructor. Possible topics include applying various GIS course operations to specific regional databases, analyzing the data, making inferences, and producing mapped data; collecting local or regional data, analyzing the data and producing conclusions; doing a library and computer search of published materials on a specific topic and designing a database system to incorporate that data and expand the area of research. PREREQUISITE: Instructor's permission.

### GIS 202 (5) GIS Fundamentals and Theory

Introduces students to GIS principles and theory, including vector and raster data models and analysis, coordinate systems, geometric transformation, spatial data editing, data exploration, terrain mapping and analysis, viewshed and watershed analysis, and geocoding and dynamic segmentation. Provides concepts and practice of GIS. Students identify a spatial problem, then design and implement an analysis project to address the problem. Emphasizes effective communication through the use of Georeferenced datasets and finished maps. PREREQUISITE: GIS 121.

### GIS 220 (5) GIS Modules Analyst

Builds on previously learned skills and concepts. Covers several ArcGIS modules within ArcGIS software programs which add analytical and display capabilities to ArcGIS. Students learn to use Network Analyst, Spatial Analyst using Model builder, and ArcScan. Students also learn how to publish data using ArcReader and Publisher modules. PREREQUISITE: GIS 121, GIS 202, or instructor's permission.

### GIS 250 (5) Data and Spatial Database Design

An overview of the structure and capabilities of the basic principles and methods for designing and building geodatabases. Students explore the basic principles of database design using the relational database model as a central focus. Students learn to build topology and edit feature classes that participate in a topology to maintain data feature spatial integrity. Students use ArcMap toolology tools to construct geodatabases which include behavioral topology rules for spatial features. Students produce a comprehensive spatial database supporting a research project in natural resources, conservation, urban planning, or other relevant research interests. PREREQUISITE: Concurrent enrollment in GIS 121 or instructor's permission.

### GIS 255 (5) Introduction to GIS Programming

Focuses on two GIS programming approaches for ArcGIS desktop: ArcObjects programming with Visual Basic Applications and Python programming. Students apply the principles of object-oriented programming to GIS applications. Explores how Python scripts add functionality to ArcGIS along with tools/buttons to call up these functions. Students also learn to write and debug scripts for ArcGIS. PREREQUISITE: GIS 121 or instructor's permission.

### GIS 257 (5) Advanced Python for GIS

Focuses on leveraging external Python libraries and object-oriented programming idioms like classes and methods to more sophisticated GIS problems. Emphasizes Python programming techniques and best practices. Students learn how to incorporate Python scripts into GIS workflows, such as ModelBuilder, Python Add-ins, or as stand-alone scripts. PREREQUISITE: GIS 255 or instructor's permission.

### GIS 260 (5) Cartography-Based GIS

Provides general introduction to the principles and techniques of GIS cartography. Reviews fundamental mapping concepts of map design using GIS technology. Students apply concepts of map scale, projection, and coordinate systems. Covers principles of thematic map design for different purposes and audiences. Students learn new ArcGIS cartography tools and modules, including Maplex, to aid in understanding principles of thematic map design for different purposes and audiences. Students get hands-on experience using ArcGIS symbols labeling, and annotation to make maps and to export maps into different formats. PREREQUISITE: GIS 121 or instructor's permission.

### GIS 265 (5) Enterprise Spatial Database Design

Students use SQL Server database to maximize ArcGIS for Server Basic geodatabase with ArcGIS. Covers ArcGIS for Server architecture and how to manage vector and raster data models. Covers techniques for maintaining geodatabase performance in an editing environment and how to successfully load and manage data in preparation for a multiuser geodatabase implementation. Includes versioning supported by DBMS functions for backup, recovery, replication, SQL support, and security. PREREQUISITE: GIS 121, GIS 250, IT 240 or instructor's permission.

### GIS 270 (5) GIS in the Field 1

Focuses on ArcPad ESRI software, GPS tools and Survey Analyst modules to collect, create, edit, maintain attribute/spatial information and utilize GIS maps while in the field. Students learn to transfer information between the office and field. Students also learn to create and digitize new features using survey data. Focuses on developing skills while working on research projects in natural resources, conservation, urban planning, national security, government agencies, private sectors, and non-profit organizations. PREREQUISITE: GIS 202 or instructor's permission.

### GIS 280 (5) ArcGIS Server

Teaches how to install, configure and maintain an ArcGIS for Server system that enables GIS content sharing across the enterprise or on the web. Learn the ArcGIS for Server architecture and apply recommended workflows to configure ArcGIS Server sites and manage GIS services, applications, data, and users. Emphasizes techniques and best practices to ensure system performance and security. PREREQUISITE: CS& 141, GIS 121, GIS 250, and IT 240 or instructor's permission.

### GIS 291 (2) GIS Project Planning

Assists students in developing specific skills in project planning. Students search and select a topic of interest for the final GIS project for implementation in GIS 292. Encourages students to communicate with the GIS community to find a real-world project which students do individually or in a group. Students learn to plan a project using time management and project scheduling techniques common to the industry. All students submit a written proposal for their GIS project plan, which is completed in GIS 292. PREREQUISITE: GIS 121 or 202, or instructor's permission.

### GIS 292 (4-8) GIS Project

Continuation of GIS 291. Students learn to use project planning and implement a project plan to completion. Students choose a specialty area of GIS for class project work and submit a complete written project. Possible specialties include natural resources/conservation, urban planning, national security, utilities, real estate, criminal justice or other areas of interest. Students apply knowledge learned throughout the Green River GIS program to accomplish the final capstone project in GIS 292. If an appropriate opportunity exists, students may be able to address real-world projects through an internship in government, private sector, or non-profit organizations. PREREQUISITE: GIS 220 or 291, or instructor's permission.

### GIS 299 (1-5) Independent Study-GIS

Allows and encourages students under the guidance of an instructor to study and develop independently in area of interest in GIS applications or a special topic area of GIS when specific area of interest is not offered within the GIS curriculum. Course contents are developed in conference between the student and instructor. Students meet on a tutorial basis with the instructor. PREREQUISITE: Instructor's permission.

## Geography (GEOG)

### GEOG& 100 (5) Introduction to Geography

Survey of elements, major concepts, and methods of the field of geography. Topics include weather, climate, soils, wild vegetation, settlement, population, agricultural systems, and other selected topics. PREREQUISITE: Eligible for ENGL 100 or instructor's permission. Satisfies a social science requirement for AA degree.

### GEOG 120 (5) Introduction to Physical Geography

Analyses the physical structure of the earth's surface, including landforms, weather, climate, and biogeography. Emphasizes understanding of what makes each point on Earth unique and how humans interact with physical systems in multiple ways. PREREQUISITE: Eligible for ENGL 100 or instructor's permission. RECOMMEND: Eligible for ENGL& 101. Satisfies a social science requirement for AA degree.



**GEOG 123 (5)**  
**Globalization**

Examines globalization from a geographic perspective, including the cultural and economic effects of rapid communication and transportation networks. Topics include the globalization of popular culture, economic systems, trade agreements, and arguments both for and against globalization. PREREQUISITE: Eligible for ENGL& 101. Satisfies a social science requirement for AA degree.

**GEOG 190 (5-10)**  
**Geographic Exploration**

Field course designed to allow students to study the components that make up and contribute to the character of various selected, distinct landscapes while in the field. Skill training (kayak, glacier climbing, scuba, wilderness camping) and subject briefing sessions are usually a part of this course. PREREQUISITE: Eligible for ENGL 100 or instructor's permission. Satisfies a social science requirement for AA degree.

**GEOG& 200 (5)**  
**Human Geography**

The spatial study of cultural phenomena on earth. Examines the distribution of diverse cultures, ethnicities, languages, religions and economies at a global, as well as regional, scale. Analyzes current geographic problems in the context of migration, population growth, ethnic and religious identities, the colonial legacy and the growing forces of globalization. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

**GEOG 201 (5)**  
**World Regional Geography**

Study of the world's regional structure; analysis and interpretation of the world's cultural, economic, and resource patterns. RECOMMEND: Eligible for ENGL& 101. Satisfies a social science requirement for AA degree.

**GEOG 205 (5)**  
**Environmental Geography**

Studies the relationship between humans and the natural world. Topics include population, consumption, resources, pollution, agriculture, and sustainability. Emphasizes global climate change and the environmental systems of the Puget Sound bioregion. PREREQUISITE: Eligible for ENGL& 101 and MATH& 141. Satisfies a social science requirement for AA degree.

**GEOG 298-299 (1-5)**  
**Independent Study-Geography 1-2**

Permits students to individually pursue a special field of interest under the guidance of an instructor. PREREQUISITE: GEOG 100, 120, or equivalent; and instructor's permission.

**Geology (GEOL)****GEOL& 101 (5)**  
**Introduction to Physical Geology**

Survey of the physical systems that give the Earth its form. Emphasizes the dynamic nature of interior and exterior processes and their relevance to humans. Laboratory class with field trips. PREREQUISITE: Eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**GEOL 106 (5)**  
**Dinosaurs**

Dinosaur biology, behavior, and evolution. Exploration of the factors that led to the dinosaur's extinction and the history of their discovery by paleontologists. With dinosaurs as the focal point, the course also introduces students to how hypotheses in science are formulated and tested. Students examine fossils of dinosaurs and other prehistoric animals during classroom discussions. PREREQUISITE: Eligible for ENGL& 101. Satisfies a natural science requirement for AA degree.

**GEOL 107 (5)**  
**Prehistoric Life**

Introduces fossils and the geologic record. Topics include geologic time, different types of fossils and how they are preserved, what fossils tell us about past life, how the history of life unfolded, how the earth's environments have changed over time, what caused the great events in biological evolution, and what caused extinctions. PREREQUISITE: Eligible for ENGL& 101. Satisfies a natural science or lab science requirement for AA degree.

**GEOL 150 (1)**  
**Field Trips in Geology 1**

Investigates the geology of the Pacific Northwest. Locations of field trips vary from quarter to quarter. Some of the trips involve hiking up to three or four miles on variable terrain. PREREQUISITE: Concurrent enrollment in GEOL, or GEOL& 101; or instructor's permission. Eligible for ENGL& 101. Satisfies an activity requirement for AA degree. This is a pass/no-credit course.

**GEOL 151 (1)**  
**Dinosaurs: Museum Field Trips in Geology**

Students learn about dinosaur biology, behavior, and the reasons behind their extinction. Students examine fossils of dinosaurs and other prehistoric animals during classroom discussions and students are guided through dinosaur exhibits at museums in the Puget Sound region. Students are responsible for museum entry fees and transportation to and from museums. PREREQUISITE: Eligible for ENGL& 101. This is a pass/no-credit course.

**GEOL 152-153 (1)**  
**Field Trips in Geology 2-3**

Investigates the geology of the Pacific Northwest. Locations of field trips vary from quarter to quarter. Some of the trips involve hiking up to 3 or 4 miles on variable terrain. PREREQUISITE: Concurrent enrollment in GEOL, or GEOL& 101, or instructor's permission. Eligible for ENGL& 101. Satisfies an activity requirement for AA degree. This is a pass/no-credit course.

**GEOL 200 (5)**  
**Geological Investigations of the National Parks**

An investigation of the geology of national parks of the U.S. and Canada. The primary emphasis is on the geology of the western park. PREREQUISITE: GEOL& 101 and eligible for ENGL& 101. Satisfies a natural science requirement for AA degree.

**GEOL 206 (5)**  
**Earth History**

A study of the geological theories of the evolution of the earth, the oceans, the atmospheres, and life. Includes principles of physical stratigraphy, biostratigraphy, geochronology, plate tectonics, fossil identification, and the paleogeographic changes in North America through time. PREREQUISITE: GEOL& 101 and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**GEOL& 208 (5)**  
**Geology of the Pacific Northwest**

Covers the geological history of Washington, Oregon, and Idaho. Emphasizes the use of geologic principles in interpreting evidence found in landscapes and rocks. Includes field trips. PREREQUISITE: GEOL& 101 or equivalent and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**GEOL 299 (1-5)**  
**Independent Study-Geology**

Allows and encourages students to study independently in their special interest in geology. Course contents, type and scope of project are decided in conference between student and instructor. PREREQUISITE: GEOL& 101 and/or instructor's permission and eligible for ENGL& 101.

**German (GERM)****GERM 194 (1-5)**  
**Special Studies-German**

Offers special subject matter that is not part of the regular German curriculum. Content varies depending upon requests from students or the opportunity to present unusual topics.

**GERM& 121 (5)**  
**German I**

Introduces the systematic study of German with emphasis on speaking and listening. Includes basic grammar, vocabulary, reading, writing, and conversation practice. PREREQUISITE: No previous background in German, or no more than one year of high school German, or no more than two years of high school German with a grade of "C" average or less. Satisfies a humanities/fine arts/English requirement for AA degree.

**GERM& 122 (5)**  
**German II**

Continues the systematic study of the language using the four basic skills of listening, speaking, reading, and writing. PREREQUISITE: GERM& 121 or two years of high school German with a grade of "B" or higher or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

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### **GERM& 123 (5)** **German III**

Introduces the systematic study of German with emphasis on speaking and listening. Includes basic grammar, vocabulary, reading, writing, and conversation practice. Fulfills University of Washington College of Arts and Sciences graduation requirements. PREREQUISITE: GERM& 122 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **Health and Human Services (H HSC)**

### **H HSC 110 (8)** **Fundamentals of Caregiving: Introduction to Health Occupation**

Students learn the essential skills to become an entry level health care and human services provider which include basic workplace skills and ethics, responsibilities of a care provider, communication skills, patient rights and confidentiality. Covers general patient and workplace safety rules, documentation using correct terminology, nutritional concerns, an understanding of select diagnoses, patient/client safety, infection control, and measuring vital signs. Students learn the basics of body mechanics, transfers, ambulation, and the use of assistive devices, ADL care, and the supervision of routine exercise programs. Provides mock hands-on, supervised experience in patient/client related tasks. At the successful completion of this course, students earn CPR for Healthcare Professional, Fundamentals of Caregiving, and seven-hour HIV/Aids certificates and are eligible to register with the state of Washington for the (NAR) Nursing Assistant Registered status.

### **Health Education (HL ED)**

### **HL ED 150 (5)** **Total Wellness**

Explores wellness and provides students with the information necessary to make informed choices and decisions regarding physical activity, diet/weight control, nutrition, death and dying, recognizing and reducing stress, relaxation techniques, relationships, environmental issues, and risk factors for disease. Taught by a team of instructors.

### **HL ED 160 (3)** **Applied Wellness**

Explores the application of concepts and principles in HL ED 150, in addition to advanced concepts in wellness. PREREQUISITE: HL ED 150.

### **HL ED 170 (3)** **Wellness Approach to Final Stages of Life**

Educates students about the issues surrounding death, dying, surviving and living. Topics include Elisabeth Kubler-Ross's Stages of Loss. Model, cross-cultural attitudes toward death, the dying person and one's own death, grieving, epidemiology and danger signals of suicide, euthanasia, body disposal, wills, living wills, organ donation, and options for funeral arrangements. This wellness approach emphasizes celebration in quality of life. PREREQUISITE: HL ED 150.

### **HL ED 180 (3)** **Food and Health**

Explores diet and its relationship to the health and vitality of the individual. Provides practical information necessary for evaluating nutritional needs, obtaining essential nutrients, gaining strategies for improving dietary intake, practicing food safety, and understanding food labeling. Also focuses on diet and weight control, body image, and eating disorders, along with diet and disease.

### **HL ED 190 (3)** **Standard First Aid/CPR**

American Red Cross requirement for First Aid and CPR certification may be met. Covers adult, child, and infant first aid, CPR, rescue breathing, medical emergencies, bandaging, splinting and transporting. Satisfies an activity requirement for AA degree.

### **HL ED 198 (3)** **Independent Study-Health**

For any student wishing to develop a basic knowledge in health when there is no offering in the regular curriculum. PREREQUISITE: Instructor's permission.

### **Health Science (H SCI)**

### **H SCI 101 (3)** **Neuroscience**

Introduces neuroscience as it relates to the practice of physical therapy. PREREQUISITE: H SCI 102.

### **H SCI 102 (5)** **Applied Anatomy**

Covers anatomy of the musculoskeletal system including bony landmarks; origins, insertions, innervations of muscles and fundamentals of clinical kinesiology. PREREQUISITE: Instructor's permission.

### **H SCI 104 (3)** **Fundamentals of Gerontology**

Study of physical, emotional and social processes involved in normal aging, plus a brief study of the pathology associated with the aging process. Emphasizes techniques used in maintaining independence, adjusting to the special problems of aging and the utilization of community resources. Open to health science majors interested in the aging process. PREREQUISITE: Instructor's permission.

### **H SCI 108 (2)** **College Success for Healthcare Exploration**

Enhances student learning in the Introductions to Health Care Careers program by exploring methods and strategies of improving study skills and habits that include the following: time management, note taking, efficient reading, test preparation and test taking, and understanding personal learning styles.

### **H SCI 110 (3)** **Exploring Healthcare Careers**

Explores career options in the healthcare field. Covers qualities of the health care worker, how to prepare for a career in health care, cultural issues in health care, and an overview of the many health care career options.

### **H SCI 111 (2)** **Beginning Medical Language**

Introduces students to words and abbreviations used in healthcare settings including components, definitions, and uses of medical terminology. Students develop an understanding of how these components and terms are used in a variety of healthcare settings, by healthcare providers, and in industry-specific communication.

### **H SCI 112 (2)** **Introduction to Healthcare Skills and Functions**

Students are instructed in general patient care basics including infection control and measuring vital signs, body mechanics and transfers along with professional behavior and awareness. Students also earn CPR/First Aid for healthcare professionals and HIV/AIDS certification and HIPAA certificates upon completion of the course.

### **H SCI 113 (3)** **Introduction to Anatomy and Physiology**

Covers the basics of human anatomy and physiology including anatomical terminology, basic biochemistry, cells and tissues, and the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Introduces common human disease processes and general medical terminology. Prepare students to take advanced anatomy and physiology courses.

### **H SCI 150 (5)** **Human Life Span Growth and Development**

Includes a study of the basic theories and processes of normal human growth and development. Emphasizes practical assessment and integration of all components—psychosocial, physical and cognitive—relative to the needs of health care recipients. For students pursuing health science careers. PREREQUISITE: Instructor's permission.

### **High School Completion (HSC)**

### **HSC 020 (1-10)** **iGRAD Frameworks**

For iGRAD students only. Develops the academic and personal skills essential for success. These academic and Life management skills include learning strategies, techniques for time management, decision making, test preparation, and critical thinking. PREREQUISITE: Instructor's permission.

**HSC 025 (3-5)**  
**Civics and Government**  
 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. PREREQUISITE: Concurrent enrollment in READ 084; or eligible for ENGL 081 and READ 094.

**HSC 033 (5)**  
**High School Language Arts and Literature**  
 Introduces high school students to the critical reading and writing skills needed for the study of civics and history. Students work with primary documents, history texts, historic analysis, and quotations, and their own writing to identify the central ideas, summarize complex concepts, and to describe the explicit and implicit contents of text.

**HSC 040 (3-5)**  
**Culminating Experience**  
 Fulfills the Washington state high school requirement for the culminating experience and post-high school graduation life planning. Instructor facilitates students to find their own passionate interests, and then use those interests to create a showpiece that can both wrap up their K-12 education and launch them into productive and satisfying adult lives. PREREQUISITE: Concurrent enrollment in READ 084; or eligible for ENGL 081 and READ 094. This is a pass/no-credit course.

**History (HIST)**

**HIST 021 (5)**  
**U.S. History 1**  
 Covers U.S. history from pre-Colombian times through Reconstruction. Explores topics in political, economic, social, intellectual, cultural, diplomatic and military history. PREREQUISITE: Concurrent enrollment in READ 084 or eligible for READ 094 and ENGL 081.

**HIST 022 (5)**  
**U.S. History 2**  
 Covers U.S. History from Reconstruction to contemporary times. Explores topics in political, economic, social, intellectual, cultural, diplomatic and military history. PREREQUISITE: Concurrent enrollment in READ 094 and ENGL 081.

**HIST 024 (5)**  
**Pacific Northwest and 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.

**HIST 101 (5)**  
**The Ancient World**  
 Introduces the major world civilizations from pre-history through the medieval epoch, approximately 1300. Emphasizes socio-political formations, cultural and religious expressions of Mesopotamia, Egypt, India, Asia, Africa, and Europe. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

**HIST 102 (5)**  
**Early Modern World**  
 Introduces the major world civilizations from the medieval to the modern epoch, approximately 1800. Emphasizes the Renaissance and Reformation, Age of Science and Enlightenment, Colonial and Trans-Atlantic Age, Age of Revolution, Ming and Qing China, and Age of Empire in the Middle East. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirements for AA degree.

**HIST 103 (5)**  
**The Modern World**  
 Introduces world history in the 19th and 20th centuries. Themes include industrialization, cultural revolutions, political modernization, colonialism and decolonization, world wars, Cold War, globalization, terrorism, and other contemporary problems. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

**HIST 120 (5)**  
**History of the Movies**  
 Examines the emergence of movies as a form of popular culture during the early decades of the 20th century, traces their development through the introduction of sound and color, the competition with the new medium of television, and concludes with the movie's emergence as a pervasive world culture at the beginning of the 21st century. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

**HIST 122 (5)**  
**History of Australian Movies**  
 Examines the emergence of a unique Australian cinema during the early decades of the 20th century, the struggle to maintain independence from the Hollywood and British film industry, and the development of an internationally recognized Australian style in the later decades of the 20th century. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

**HIST 135 (5)**  
**The United States Since 1940**  
 Surveys U.S. history since 1940. Explores topics in social, cultural, intellectual, economic, political, military and foreign affairs history. Studies the contributions of minorities and women to U.S. history. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

**HIST& 136 (5)**  
**U.S. History I**  
 First quarter survey of U.S. history commencing with Native American origins and concluding with Reconstruction. Emphasizes the contributions of minority groups in the development of U.S. society. Focuses on major interpretations and revisionist schools of historical literature. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

**HIST& 137 (5)**  
**U.S. History II**  
 Second quarter survey of U.S. history, commencing in 1877 and ending with contemporary affairs. Emphasizes the contributions of minority groups to the development of American society. Focuses on major interpretations and revisionist schools of historical literature. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

**HIST 194 (1-3)**  
**Special Studies-History**  
 Students develop a unique experience while working at local museums. Students learn or work with a local historical organization in gathering, preserving, organizing and managing of historical records at the local, state and federal level; and learn procedures in determining and preserving historic sites. PREREQUISITE: Eligible for ENGL 099 or instructor's permission.

**HIST& 215 (5)**  
**Women in U.S. History**  
 A brief survey of gender and U.S. history from pre-Colombian times to the present. Explores topics in cultural, ethnic, intellectual, political, social, and economic history. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

**HIST 220 (5)**  
**History of American Civilization**  
 Examines the history of the United States through the process of becoming a modern world power. Gives attention to immigrants of North America; the conquest, and colonization of the continent; the contribution of minority groups, nation-building and myth-making; sectional and regional conflicts; industrialization and post-industrialization; and the emergence of the United States as a major world power. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

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### **HIST 224 (5)** **African-American History**

A broad survey of African American history. Begins with an overview of West African cultures prior to the rise of the slave trade and ends with a discussion of modern events. Topics include the rise of slavery in the Americas, the origin and development of American ideas about race, the formation of an African-American culture, the Civil War and emancipation, the era of Jim Crow, and the struggle for civil rights from the 18th century to the present. Explores various interpretations and theoretical ideas about African American history. Shows that African American history is central to U.S. history. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

### **HIST 226 (5)** **Asian-American History**

Explores the experiences of Asians in the U.S. from the period of immigration to the present. Emphasizes the immigrant experience, the impact of exclusionary immigration laws, the development of ethnic Asian-American communities, and post-1965 developments. Surveys the experiences of Chinese, Japanese, Filipino, Korean, Asian-Indian, and Southeast-Asian refugees. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

### **HIST 228 (5)** **Latinos in the United States**

Examines the historical, social and economic experience of Latinos in the United States. Begins with the Spanish borderlands in the 16th century and ends with contemporary affairs. Explores the histories of Mexicans, Puerto Ricans, Cubans, Dominicans and Central Americans in the United States within the context of U.S. relations with the countries of origin and changes over time in the U.S. society and economy. Assesses the historical construction of race and ethnicity, gender, and the changing forms of identity. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

### **HIST 230 (5)** **20th Century Europe**

An in-depth study of Europe in the 20th century. Themes include 19th century legacies and end of the century crisis, artistic and cultural change, two world wars, a cold war, wars of decolonization, economic growth and decline, political unity, protest, and fragmentation. Focuses on political, cultural, and intellectual themes. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **HIST 231 (5)** **Modern Asia**

Deals with the historical factors that shaped the domestic and international relations of China, Japan, and Korea. Focuses on the evolution of political and economic power of those countries from 1850 to the present. Gives attention to the role of religious and philosophical backgrounds and to the changes that occurred in the economic, social and political structures of these societies. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **HIST 232 (5)** **Renaissance and Reformation**

Examines intellectual, religious and cultural change during the Renaissance, Reformation and scientific revolution in Europe, approximately 1350-1650 CE. Gives attention to Renaissance politics and society. Explores Reformation from religious and cultural perspectives, as well as competing early modern cosmologies through a comparison of the witch-hunting craze with the nascent world of modern science. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **HIST 233 (5)** **History of Latin America**

Surveys the history of Latin America from its indigenous, Iberian, and African roots through contemporary affairs. Assesses the historical construction of racial, class, and gender inequalities. Emphasizes the historical diversity of the region and examines common social, economic and political problems. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

### **HIST 235 (5)** **History of Great Britain**

Examines the history of Britain from the island's first inhabitants through the long and difficult struggles to become the United Kingdom. Gives attention to the various social and political groups that have dominated British life during the past and the present. For the London quarter, particular attention is given to the city of London as the center of British life and culture. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **HIST 237 (5)** **History of Australia and New Zealand**

Examines the history of the Australasian nations of Australia and New Zealand from the first human inhabitation of Australia some 60,000 years ago and the Maori settlement of New Zealand some 900 years ago through the long and often difficult processes of becoming the modern island nations of Australia and New Zealand. Gives attention to the various groups who have migrated to Australasia, the European exploration and colonization of the area, the development of settlements and colonial governments, the move to nationhood in the late 19th century, and the emergence of the modern nations of Australia and New Zealand in the 20th century. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **HIST 240 (5)** **The Civil War**

Studies the events and conditions leading to the Civil War, the conflict itself, and the war's legacy. Begins with a review of the roots of slavery in the British colonies, the consolidation of slavery as a major institution, and its increasing influence in the polarization of the young republic. Examines a number of important developments such as the Missouri Compromise, Manifest Destiny, the divisive events of the 1850s, the election of Abraham Lincoln, the constitutional crisis and secession, the Confederacy and Unions political, economic, and military strategies, the reality of total war, the military campaigns and decisive battles. Concludes with an examination of the legacy of conflict. PREREQUISITE: Eligible for ENGL&101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **HIST 245 (5)** **The Second World War**

Examines the history of World War II from its long-term origins in the post-WWI era, through the rise of dictators and imperial conquest in the 1930's. Examines key figures and events of the war: from Hitler to FDR; from the nature of warfare to domestic fronts; from Pacific to the European theaters; from the Holocaust to the atomic bombs. Gives special attention to the various ethnic, religious, and political groups affected by World War II. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### **HIST 250 (5)** **The Vietnam War**

Traces the background of the Vietnam War to the eventual direct involvement of the United States, Russia and China in the revolt of the Vietnamese against French colonialism in Indo-China. A major portion of the course deals with the period from the defeat of the French at Dienbienphu in 1954 to the defeat of South Vietnam by the North in April 1975. Examines recent historical interpretations and debates over the war. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

**HIST 299 (1-5)  
Independent Study-History**

Permits a student to pursue a special field of interest under the guidance of an instructor. PREREQUISITE: Five credits of history at the 100 or 200 level plus instructor's permission.

**Humanities (HUMAN)****HUMAN 100 (5)  
Creative and Critical Thinking**

Helps students identify aspects of creative and critical thought in themselves and others. Offers experiences, theories, and concepts through which students develop statements of personal principles and worldviews. Satisfies a humanities/fine arts/English requirement for AA degree.

**HUMAN 110 (5)  
Background for the Humanities**

Study of the common language of the arts and humanities and their relationship to the societies in which they were created. Includes the study of critical concepts and vocabulary, as well as common motifs and elements in the humanities. Also includes the study of the relationship between arts and humanities of a culture and that cultures economic, political and technological environment. PREREQUISITE: Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

**HUMAN 133 (5)  
People, Language and Culture**

Examines the relationship between language and culture, in particular how the language of a national or ethnic group provides a key to understanding the people who speak that language. Focuses chiefly on Indo-European (other than English) and East Asian languages and cultures, but specific languages studied may vary from quarter to quarter. PREREQUISITE: Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

**HUMAN 142 (5)  
Introduction to Japanese Life and Culture**

Students learn the various aspects of Japanese traditional and popular culture from a Western perspective. Incorporates key features of Japanese culture such as history, film, and art. Integrates other popular culture media such as anime and manga. RECOMMEND: College-level reading. PREREQUISITE: Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

**HUMAN 146 (5)  
Introduction to Chinese Culture and Life**

Students learn about various aspects of Chinese traditional and modern culture. Key features of Chinese culture such as history, philosophy, nationalities, arts and language will be incorporated. Also includes integration of other well-known cultural aspects such as martial arts, foods and traditional medicine. Students will understand primary differences between Chinese core culture and Western culture. Students discuss the role of traditional culture in the current economic development of China. RECOMMEND: College-level reading. PREREQUISITE: Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

**HUMAN 160 (5)  
Introduction to the Study of Gender in the Humanities**

Examines theoretical concepts and themes of gender through the lens of the Humanities (including literature, philosophy, film, communication studies, and popular culture, among other subjects). Course synthesizes historical and social analyses into inquiry about the human experience and expression of gender. Course specifically examines issues such as language, media's treatment of gender, and gender and power, relating each of these to the formation of our gendered and human identities. PREREQUISITE: Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

**HUMAN 186 (5)  
Peoples of the World**

Provides students with multicultural insights into the peoples of other countries. Examines people as a total cultural product: history, geography, literature, art, music, architecture, religion and politics. The country studied may change each time the course is offered. May be part of a field course. Satisfies a humanities/fine arts/English requirement for AA degree.

**HUMAN 190 (5)  
Latin American Culture Through Literature**

Introduces the study of Latin American culture through important works of literature that explores the complex social relations and culture of the region. Analyzes how Latin American literature has reflected cultural changes throughout the history of the region such as the impact of the conquest and slavery; the influence of patriarchy/machismo and marianism in gender relations; the problematic relations with the U.S., the history of dictatorship and social revolution in Latin America. Focuses on the connection between literature and culture in Latin American countries. Taught in English. PREREQUISITE: Eligible for ENGL& 101. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

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

Explores the relationship between film and cultural interpretation and understanding of Latin America. Considers the history of cinema in Latin America. Focuses on how film has been used to interpret Latin American culture and how we can use it to understand Latin American past and present with special emphasis on discussing the complex history and social problems of the region. Also explores common stereotypes with which Latin America has been portrayed in main stream U.S. movies. No knowledge of Spanish language required. PREREQUISITE: Eligible for ENGL 099. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree. Cross-listed with FILM 191.

**HUMAN 194 (5)  
Special Studies-Humanities**

Special subject matter that is not part of the regular curriculum. Content varies from course to course, depending on requests from students, or the opportunity to present unusual topics.

**HUMAN 224 (5)  
Women and World Religions**

Explores feminine perspectives of religion and spirituality in classical and indigenous religions today and throughout history. Examines images of the divine, mythological presentations, as well as roles and practices of women in each tradition through the study of traditional writings, feminist themes and feminist theologues. Addresses questions such as: What do sacred sources in traditional religions say about women and issues of gender; and how both men and women in society used oral and written sacred narratives. PREREQUISITE: Eligible for ENGL 099. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

**Industrial Education (INDUS)****INDUS 090 (1-6)  
Technical Skills**

Introduction to basic knowledge, concepts, skills and applicable safety practices related to various trade and technology programs. Course may include both lecture and supported laboratory exercises when appropriate.

**INDUS 101 (4)  
Basic Wood Shop**

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.

**INDUS 102.1-102.3 (3)  
Welding Survey 1-3**

Includes lecture and lab experiences in arc welding, oxy-acetylene welding, brazing, and cutting. Basic study of MIG and TIG and other special processes. PREREQUISITE: Instructor's permission. Satisfies an activity requirement for AA degree.

**INDUS 103 (4)  
Manufacturing Processes**

Provides lecture and lab situations in basic knowledge of metal manufacturing processes. Includes terminology, surface finishes, tolerances, and logical sequence of operations. Covers solving production problems and metal cutting technology. PREREQUISITE: Instructor's permission. Satisfies an activity requirement for AA degree. This is a pass/no-credit course.

**Industrial Engineering (I E)****I E 114 (4)  
CATIA 2-D**

Focuses on using CATIA (Computer Aided Three-Dimensional Interactive Application) software. Teaches file structure and management, 2-D and 3-D concepts, and the creation of elementary elements (points, lines, curves) that are used in future solids creation. Gains a working knowledge of how to move geometry within a model, change the graphical characteristics of existing geometry, and analyze and establish model standards. PREREQUISITE: Eligible for both ENGL 081 and READ 104; or instructor's permission.

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### I E 189 (4)

#### Basic Metallurgy

Introduces the basic structure of metals and the effects of alloying elements, mechanical working and heat on the strength and other properties of the metal. Students perform testing procedures for evaluating strength, hardness and heat treating processes in the laboratory.

### 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 116T or equivalent.

### I E 210 (7)

#### CATIA Modeling

Focuses on creating 2-D and 3-D geometry using CATIA (Computer Aided Three Dimensional Interactive Application) software. Teaches commands for creating and editing drawings. Uses CATIA software. Course covers three modules: 2-D geometry creating and editing; 3-D parametric solids modeling and editing; and 3-D parametric surface modeling and editing. CAD instruction emphasizes methods for creating documents that are accurate and accomplished in a timely manner. PREREQUISITE: D T 135 and 236.

### I E 214 (5)

#### CATIA 3-D Solids

Focuses on using CATIA (Computer Aided Three-Dimensional Interactive Application) software. Teaches creation and modification of solid modeling using CATIA. Students gain an understanding of the history of solids creation and the ability to extract elements from the history of solid bodies. CAD instruction emphasizes methods for creating documents that are accurate and accomplished in a timely manner. PREREQUISITE: I E 114.

### I E 215 (4)

#### CATIA 3-D Surfacing

Focuses on using CATIA (Computer Aided Three-Dimensional Interactive Application) software. Teaches creation and modification of surface modeling using CATIA. Students learn to use the variety of curves available in CATIA and how they interact with different disciplines, such as SOLIDS, N/C toolpath creation, and volume creation. CAD instruction emphasizes methods for creating documents which are accurate and accomplished in a timely manner. PREREQUISITE: I E 214.

## Information Literacy (INFO)

### INFO 104 (2)

#### Information for the Disciplines

Introduces students to the professional and research literature in a humanities, social sciences or science discipline. Students develop the ability to locate, evaluate, and effectively and ethically use information sources and information retrieval systems pertinent to the discipline under study. Students gain an understanding of the object and method of study in the discipline, and compare scholarly with popular sources. May be offered as a linked course. This is a pass/no-credit course.

### INFO 110 (2)

#### Information Literacy and Research Skills

Examines the nature of information and the research process. Topics include locating, retrieving, evaluating, and using information print and electronic resources effectively and ethically.

### INFO 126 (2)

#### Information Literacy in the Humanities

Students gain an understanding of information sources in the humanities. Students develop the ability to locate, evaluate, and effectively use information sources and information retrieval systems pertinent to humanities disciplines. Students understand the object and method of study in the humanities, and compare scholarly with popular sources. PREREQUISITE: Eligible for ENGL 099. This is a pass/no-credit course.

### INFO 127 (2)

#### Information Literacy for the Social Sciences

Students gain an understanding of information sources in the social sciences. Students develop the ability to locate, evaluate, and effectively use information sources and information retrieval systems pertinent to social sciences disciplines. Students understand the object and method of study in the social sciences, and compare scholarly with popular sources. PREREQUISITE: Eligible for ENGL 099. This is a pass/no-credit course.

### INFO 128 (2)

#### Information Literacy for Science/Engineering/Business

Students gain an understanding of information sources in science, engineering, and/or business. Students develop the ability to locate, evaluate, and effectively and ethically use information sources and information retrieval systems pertinent to science, engineering, and/or business. Students understand the object and method of study in science, engineering, and/or business, and compare scholarly with popular sources. PREREQUISITE: Eligible for ENGL 099. This is a pass/no-credit course.

## Information Technology (IT)

### IT 101 (5)

#### Introduction to Information Technology

Provides an overview of information technology. Introduces computer hardware, software, procedures and systems, and their applications in various segments of society. Introduces information about careers in software development, networking, and security. Discussion of computer ethics and current events. PREREQUISITE: Eligible for READ 094 or instructor's permission.

### IT 102 (5)

#### Programming Fundamentals

An introductory programming class. Covers procedural programming, decision statements, loops, file processing, variables, and arrays.

### IT 114 (7)

#### CompTIA A+ Certification Preparation

A preparation course for the CompTIA A+ certification, an IT industry recognized entry level certification. Students learn about installation, maintenance, troubleshooting and repair of information and communication technology hardware and software. Covers all current CompTIA A+ certification exam objectives.

### IT 121 (5)

#### Introduction to HTML and CSS

Students learn the fundamentals of Hypertext Markup Language (HTML) to create a web page with content, graphics, links, tables, and forms. Using Cascading Style Sheets (CSS), students learn to control page layout, colors, fonts and other design elements.

### IT 131 (5)

#### Networking Fundamentals

Introduces networking to students who are interested in a career managing routers and switches. Topics include TCP/IP and OSI modules, subnetting, protocols, network applications, switching and routing fundamentals, and an introduction to configuring Cisco routers and switches. PREREQUISITE: IT 114 or instructor's permission.

### IT 135 (5)

#### CompTIA Security+ Certification Preparation

Provides students with a broad foundation of network security knowledge. Topics include security fundamentals, overview of cryptography, security policies and procedures, common types of attacks, and how to implement network security measures.

**IT 141 (4)**  
**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. Prepares students to do job searches, to prepare resumes and cover letters, and to dress professionally for the work environment. Students learn proper e-mail techniques and meeting etiquette. Prepare students for the ITIL Foundations certification.

**IT 160 (5)**  
**Microsoft Windows Server Administration I**

Provides students with the knowledge and skills necessary to install and configure Microsoft Windows Server.

**IT 175 (1-4)**  
**Student Assistant**

Student works in the computer lab. Includes assisting with lab activities. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**IT 178 (1-8)**  
**IT Work Experience**

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**IT 190 (5)**  
**Linux Administration 1**

Provides hands-on experience in installing and configuring the Linux operating system. Presents an introduction to basic Linux commands and Linux administration tasks.

**IT 194 (5)**  
**Special Topics-Information Technology**

Permits students to pursue special IT topics, under the guidance of an instructor. Topics include a discussion of the Open Systems movement, its impact on the computer industry and exposure to its software; the role of PDAs as thin clients and how to integrate them into existing systems and development of their applications, data transfer, and impact on society; and developments in client/server technologies, like XML and DHTML, that impacts how data is generated and presented to users. PREREQUISITE: IT 114 or instructor's permission.

**IT 201 (5)**  
**Database Fundamentals**

Students analyze real world scenarios, organize data into relational tables for storage, and query information for reporting through the use of a database management system (DBMS). Focus on using Structured Query Language (SQL) as the means to create, modify, and maintain database tables, queries, views, and constraints. Students practice their database design skills through hands-on exercises and labs.

**IT 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.

**IT 210 (5)**  
**Introduction to Routing and Switching**

Focuses on the knowledge and skills to implement and configure routing and switching. Topics include device configuration, IPv4, IPv6, Subnetting, virtual local area networks (VLANs), routing protocols, and wide area networking (WAN) technologies. PREREQUISITE: IT 131 or instructor's permission.

**IT 220 (5)**  
**Software Development Methods**

An intermediate course in programming that emphasizes modern software development methods. An introduction to the software development life cycle and processes. Topics include requirements analysis, specification, design, implementation, and verification. Emphasizes the role of the individual programmer in large software development projects. PREREQUISITE: CS& 131 or CS& 141; or instructor's permission.

**IT 223 (5)**  
**Active Web Site**

Introduces students to the concepts and applications of an active web site. An active web site creates web pages "on the fly" to meet the specific needs of each user. Students demonstrate an active web site with client-side and server-side scripting, cookies to maintain a user state, and a database connection. Emphasizes the role of the developer and issues to be considered when creating an active web site. PREREQUISITE: IT 201 and 203.

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

Introduce students to the fundamentals of computer security and cryptography. Topics include network security; compliance and operational security; threats and vulnerabilities; applications, data, and host security; access control and identity management; and cryptography. Students learn fundamental network security analysis methods. PREREQUISITE: IT 135 or instructor's permission.

**IT 240 (5)**  
**Windows Server Administration II**

Gives students the ability to administer and troubleshoot a Microsoft Windows Server network infrastructure. PREREQUISITE: IT 131 and IT 160; or instructor's permission.

**IT 243 (5)**  
**Linux Administration II**

Provides hands-on experience in installing and configuring advanced Linux networking and security. PREREQUISITE: IT 190 or instructor's permission.

**IT 245 (5)**  
**Windows Server Administration III**

Provides students with the knowledge and skills necessary to install, configure, and administer advanced directory services. Focuses on performing tasks that are required to centrally manage users' computers and resources. PREREQUISITE: IT 160 or instructor's permission.

**IT 297 (1-5)**  
**Independent Study-Information Technology 1**

Encourages students to study and develop independently in the major area of information technology. Students receive permission from the appropriate instructor. Students are on a tutorial basis with their instructor. PREREQUISITE: Instructor's permission.

**IT 301 (5)**  
**Systems Programming**

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

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

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

**IT 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. RECOMMEND: IT 210 or equivalent. PREREQUISITE: Admission into the BAS in IT program and 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 resource management in the server environment, modeling of application and domain logic using object-oriented design patterns, integration with databases using object-relational mapping, use of NoSQL data stores, application of the Model-View-Controller software pattern, and integration with third-party software. PREREQUISITE: IT 305.

## 160 Course Descriptions

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

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

### IT 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: Admission into the BAS in IT program and 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. This course is 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: Admission into the BAS in IT program and IT 310; and 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: Admission into the BAS in IT program and instructor's permission. RECOMMEND: IT 160 or equivalent.

### IT 355 (5) Agile Development Methods

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

### IT 360 (5) Introduction to Computer Forensics and Vulnerability Assessment

In this 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. In addition, students 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) Debugging, 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 software, source code control systems, and regression testing suites. Exposure to defect management practices such as triage and risk assessment. Students learn to upgrade an existing system without changing existing functionality. PREREQUISITE: IT 378.

### IT 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: Admission into the BAS in IT program and instructor's permission.

### IT 390 (5) Mobile Devices and Wireless Networking in Enterprise

Introduces the use of wireless networking and mobile devices in an enterprise environment, including connectivity, management, configuration, and security of both corporate and personal devices. PREREQUISITE: Admission into the BAS in IT program and instructor's permission.

### IT 405 (5) Mobile Development Frameworks

Develop mobile (smartphone and tablet) apps using both native (e.g. iOS and Android) and cross platform frameworks. Compare the strengths and limitations of each platform and of each development framework. Topics include submission to the app store, deployment within an organization, licensing and pricing models, updates, scalability, and security and privacy issues. PREREQUISITE: IT 328.

### IT 410 (5) Designing and Supporting Computer Networks

Uses a variety of case studies and role-playing exercises, which include gathering requirements, designing basic networks, establishing proof-of-concept, performing project management tasks, lifecycle services including upgrades, competitive analyses, and system integration. PREREQUISITE: Admission into the BAS in IT program and IT 310 and instructor's permission.

### IT 426 (5) Collaborative Design

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

### IT 434 (5) Secure Development Practices

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

### IT 460 (5) Threat Analysis

Provides the student with the ethical hacking knowledge to conduct a threat assessment, secure a network across popular platforms and operating systems, understand various types of threats, intrusion detection systems, and establish auditing and monitoring systems for vulnerabilities and threats without affecting performance. PREREQUISITE: Admission into the BAS in IT program, IT 360 and IT 385, and instructor's permission.

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

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

### IT 490 (5) Capstone: Network/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: Admission into the BAS in IT program, BUS 340, ENGL 335, and completion of at least 40 credits of upper division IT courses, and instructor's permission.

## Interdisciplinary Science (IDS)

### IDS 101 (5) Interdisciplinary Science I

First of a three-quarter sequence integrated science course involving physics, chemistry, biology and geology. Uses climate and global change as a theme to develop basic concepts in science, such as measurement, analysis of data, hypothesis generation, and testing. Students collect and analyze data in physics, chemistry, biology and geology that relate to the topic of climate and global change. Includes field trips during class time to locations near the college. PREREQUISITE: MATH 097 or concurrent enrollment and eligible for ENGL & 101. No previous college science or instructor's permission. Satisfies a lab or natural science requirement for AA degree.



**IDS 102 (5)**  
**Interdisciplinary Science 2**  
 Second of a three-quarter sequence integrated science course involving physics, chemistry, biology and geology. Uses climate and global change as a theme to develop basic concepts in science, such as measurement, analysis of data, hypothesis generation and testing. Students collect and analyze data in physics, chemistry, biology and geology that relate to the topic of climate and global change. May include field trips during class time to locations near the college. PREREQUISITE: IDS 101 and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**IDS 103 (5)**  
**Interdisciplinary Science 3**  
 Last of the three-quarter sequence integrated science course involving physics, chemistry, biology and geology. Uses climate and global change as a theme to develop basic concepts in science, such as measurement, analysis of data, hypothesis generation and testing. Students collect and analyze data in physics, chemistry, biology and geology that relate to the topic of climate and global change. May include field trips during class time to locations near the college. PREREQUISITE: IDS 102 and eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**Japanese (JAPN)**

**JAPN& 121 (5)**  
**Japanese I**  
 Begins the systematic study of Japanese. Includes basic grammar, vocabulary, reading, writing, and conversation practice, and introduces Hiragana and Kanji writing systems. Students learn the history, nature, and diversity of Japanese speaking cultures. PREREQUISITE: No previous background in Japanese, or no more than one year of high school Japanese, or no more than two years of high school Japanese with a "C" average or less. Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

**JAPN& 122 (5)**  
**Japanese II**  
 Systematic study of Japanese using the four basic skills of listening, speaking, reading, and writing. Students learn the history, nature, and diversity of Japanese speaking cultures. PREREQUISITE: A grade of 2.0 or higher in JAPN& 121 or equivalent with instructor's permission. Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

**JAPN& 123 (5)**  
**Japanese III**  
 Continues the systematic study of Japanese using the four basic skills of listening, speaking, reading, and writing. Students learn the history, nature, and diversity of Japanese speaking cultures. Fulfills the University of Washington College of Arts and Science graduation requirement. PREREQUISITE: A grade of 2.0 or higher in JAPN& 122 or equivalent with instructor's permission. Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

**Journalism (JOURN)**

**JOURN 100.1 (1-5)**  
**News Laboratory 1**  
 Students write, edit, design, photograph and produce the digital and print versions of the student publication, The Current. PREREQUISITE: Eligible for ENGL& 101. Satisfies an activity requirement for AA degree.

**JOURN 100.2 (1-5)**  
**News Laboratory 2**  
 Students continue to write, edit, design, photograph and produce the digital and print versions of the student publication, The Current. Instructor encourages students to enroll in JOURN 101 while taking this class, or to have already completed the course. PREREQUISITE: JOURN 100.1.

**JOURN 100.3 (1-5)**  
**News Laboratory 3**  
 Students gain additional experience as they write, edit, design, photograph and produce the digital and print versions of the student publication, The Current. PREREQUISITE: JOURN 100.2.

**JOURN 101 (5)**  
**News Writing**  
 Prepares students to write for the media, including newspapers, public relations or online publications. Stresses news writing mechanics, including covering a newsbeat, learning news style and newsroom organization and terminology. Instructor encourages students to enroll in JOURN 100.1 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.

**JOURN 103 (5)**  
**Introduction to Desktop Publishing**  
 Introduces publication design and production. Instructor recommends basic knowledge of computers (either PC or Mac). Students develop skills and an understanding of the basics of designing a publication, including the following: use of desktop publishing software; use of typography and graphics; working with page grids and templates; different treatments for features, columns, departments; effective cover design; and basic computer skills needed to prepare a publication for print.

**JOURN 107 (5)**  
**Introduction to Video Journalism**  
 Introduces students to the art of storytelling, stressing techniques such as narrative journalism, conversational interviewing, use of natural sound and video sequence construction. Satisfies a humanities/fine arts/English requirement for AA degree.

**JOURN 110 (3-5)**  
**Radio Laboratory 1**  
 Gives students working at Green River campus radio station KGRG-FM on-the-air and behind-the-scenes experience in news broadcasting, radio production, and disc jockey work. Satisfies an activity requirement for AA degree.

**JOURN 111 (3-5)**  
**Radio Laboratory 2**  
 Gives students working at Green River campus radio station KGRG-FM additional experience in newsgathering, remote broadcasting, and on-the-air performance. PREREQUISITE: JOURN 110 or instructor's permission.

**JOURN 112 (3-5)**  
**Radio Laboratory 3**  
 Gives students working at Green River campus radio station KGRG-FM additional experience in production work, news casting, and on-the-air performance. PREREQUISITE: JOURN 111 or instructor's permission.

**JOURN 120 (3-5)**  
**Digital Radio Laboratory 1**  
 Gives students working exclusively on all-digital KGRG-AM radio station experience with computer-based over-the-air broadcasting, radio station operations, FCC rules and regulations, and both live and voice-tracked disc jockey work. Satisfies an activity requirement for AA degree.

**JOURN 121 (3-5)**  
**Digital Radio Laboratory 2**  
 Gives students working exclusively on all-digital KGRG-AM radio station additional experience with computer-based over-the-air broadcasting, radio station operations, FCC rules and regulations, and both live and voice-tracked disc jockey work. PREREQUISITE: JOURN 120 or instructor's permission.

**JOURN 122 (3-5)**  
**Digital Radio Laboratory 3**  
 Gives students working exclusively on all-digital KGRG-AM radio station further experience with computer-based over-the-air broadcasting. Students gain experience with the KGRG Internet web site, as well as webcast development and maintenance. PREREQUISITE: JOURN 121 or instructor's permission.

**JOURN 150 (3)**  
**Introduction to Broadcasting**  
 Offers the student an overview of the broadcast industry from the origin of the wireless, through the golden age of radio, to the domination of television. Covers the different radio formats, and explores the growth of cable, satellite and related new entertainment technologies. Satisfies a humanities/fine arts/English requirement for AA degree.

**JOURN 151 (3)**  
**Radio Production**  
 Provides students with a survey of radio commercials, promotional announcements, and newscast production. Students develop their copywriting skills in the classroom and refine their production technique in the studio. Satisfies a humanities/fine arts/English requirement for AA degree.

## 162 Course Descriptions

### **JOURN 152 (3)** **Radio and the Community**

Covers radio management practices emphasizing the business of broadcasting. Includes sales, promotion, community relations, government regulations, demographics and programming. Satisfies a humanities/fine arts/English requirement for AA degree.

### **JOURN 153 (3)** **Broadcast Newswriting**

Gives students a fundamental working knowledge of newsgathering and newswriting for radio and television. Includes discussions of public affairs, government regulations, and the role of the electronic reporter in society.

### **JOURN 156 (3)** **Broadcast and New Media Announcing**

Stimulates an interest in and furthers the understanding of the art and science of broadcast and related media announcing. Emphasizes voice quality, articulation, enunciation, pronunciation, and responds to in-session direction. Includes discussion and practice of typical TV and radio news, sports, commercial, and disc jockey announcing types.

### **JOURN 162 (3)** **Introduction to Broadcast Technology**

Covers basic technical principles and techniques relating to broadcast audio systems, studio operation, and broadcast transmission.

### **JOURN 177-179 (1-12)** **Journalism Work Experience 1-3**

Allows students an opportunity to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer.

### **JOURN 198 (1-5)** **Independent Study-Journalism 1**

Encourages students to study and develop independently in journalism. Students develop their own focus area and objectives in consultation with the instructor. PREREQUISITE: JOURN 101 and instructor's permission.

### **JOURN 199 (1-5)** **Independent Study-Journalism 2**

Encourages students to study and develop independently in journalism. Students develop their own focus areas and objectives in consultation with the instructor. PREREQUISITE: JOURN 198 and instructor's permission.

### **JOURN 200 (3-5)** **Advanced News Laboratory**

Includes advanced writing, editing, designing, photographing and producing for the digital and print versions of the student publication, The Current. PREREQUISITE: Instructor's permission. Satisfies an activity requirement for AA degree.

### **JOURN 205 (3-5)** **Radio Management**

Gives students working at Green River campus radio station KGRG-FM experience in radio management, including promotion, news and public affairs, music, traffic and logging procedures, copywriting and/or sports broadcasting, as well as disc jockey work. PREREQUISITE: Instructor's permission.

### **JOURN 206 (3-5)** **Radio Workshop**

Gives students working at Green River campus radio station KGRG-FM additional experience in radio station management, including promotion, news and public affairs, music, traffic and logging procedures, production copywriting and/or sports broadcasting, as well as disc jockey work. PREREQUISITE: JOURN 205 and instructor's permission.

### **JOURN 207 (3-5)** **Advanced Radio Workshop**

Gives students working at Green River campus radio station KGRG-FM further experience in radio station management, including promotion, news and public affairs, music, traffic and logging procedures, production copywriting and/or sports broadcasting, as well as disc jockey work. PREREQUISITE: JOURN 206 and instructor's permission.

### **JOURN 251-252 (3)** **Journalism Internship 1-2**

Students work for a local media company 10 hours per week each quarter and meet one hour a week with an instructor to evaluate their on-the-job training. PREREQUISITE: Instructor's permission.

### **JOURN 253 (3)** **Journalism Internship 3**

Students work for a local newspaper or radio station 10 hours per week each quarter and meet one hour a week with an instructor to evaluate their on-the-job training. PREREQUISITE: Instructor's permission.

### **JOURN 254 (3)** **Advanced Radio Production**

Further develops skills from JOURN 151. Focuses on the production of radio commercials, promotional announcements, and newscasts. Emphasizes advanced techniques in copywriting, voicework, and digital production. PREREQUISITE: JOURN 151 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **JOURN 255 (3)** **Marketing the Broadcast Media**

Gives students detailed understanding of sales, marketing, and research at broadcast radio and television stations. Explores the role of advertising agencies and new technologies such as the internet in broadcasting. RECOMMEND: JOURN 150 or 152.

### **JOURN 256 (3)** **Broadcasting Boot Camp**

A one-week concentration class on special topics in broadcasting. Features radio and television sports broadcasting and radio programming techniques and strategies. Presents radio show producing, podcasting, streaming, and managing radio station web sites. Other topics include job-seeking strategies, talent agents, promotional events, and effective interaction with the broadcasting audience. RECOMMEND: Completion of at least one broadcasting course.

### **JOURN 257 (1)** **Broadcasting Traffic Reporting**

Provides instruction and practice in gathering and reporting traffic conditions for broadcast use. Emphasis on gathering information, writing and announcing traffic updates, and familiarization with professional practices in radio and television traffic operations. Course activities include compiling, composing, and delivering traffic reports for broadcast use. Includes actual airborne traffic reporting instruction.

### **JOURN 260 (2)** **Introduction to Pro Tools**

Applies a concentrated approach in exploring the processes, functions, and use of Pro Tools, the entertainment industry's premium digital audio editing software system. Emphasizes Pro Tools applications as pertinent to radio broadcasting.

### **JOURN 298-299 (1-5)** **Independent Study-Journalism 3-4**

Encourages students to study and develop independently in journalism. Students develop their own focus areas and objectives in consultation with the instructor. PREREQUISITE: JOURN 199 and instructor's permission.

## **Manufacturing (MFG)**

### **MFG 101 (1-13)** **Introduction to Machining and Manufacturing**

Emphasizes beginning conventional machine tool operation and includes use and care of tools and instruments used in measurement, layout and inspection. Safety to self and others is stressed in the operation of pedestal grinders, drill presses, conventional lathes, and milling machines. Occupational health and safety are taught. PREREQUISITE: Instructor's permission.

### **MFG 102 (1-13)** **Conventional Milling and Turning**

Introduces progressively more difficult operations on conventional lathes and milling machines with an emphasis on job planning sequence, attention to blueprint specifications, setting up equipment for safe operation, speeds and feeds calculations, proper selection of tooling and work holding, as well as work piece layout and final inspection processes. PREREQUISITE: Instructor's permission.

**MFG 103 (1-13)**  
**Conventional and Computer Numerical Control (CNC) Machining Level 1**

Emphasizes advanced calculations and machining operations on conventional lathes, milling machines, and surface grinders and their accessories. Introduces the basics of CNC programming and machining. PREREQUISITE: Instructor's permission.

**MFG 104 (1-13)**  
**Conventional and CNC Machining Level 2**

Emphasizes more advanced calculations and machining operations on conventional lathes, milling machines, and surface grinders and their accessories. Includes basic CNC milling and turning operations and introduces CAD/CAM software. PREREQUISITE: Instructor's permission.

**MFG 105 (1-13)**  
**Intermediate CNC Machining**

Emphasizes more advanced calculations and machining operations on CNC milling and turning centers and includes more extensive use of CAD/CAM software. PREREQUISITE: Instructor's permission.

**MFG 106 (1-13)**  
**Special Machining Practices**

A capstone course in which learners refine their skills working independently to produce final projects using conventional or CNC machine tools and CAD/CAM software. PREREQUISITE: Instructor's permission.

**MFG 115 (2)**  
**Reading Engineering Drawings**

Modular, group-paced course that teaches basic reading and interpretation of orthographic and isometric mechanical drawings specific to the manufacturing industry. Includes basic geometric dimensioning and tolerancing (GD&T). Emphasizes details, relevant manufacturing requirements, and industry standards and terminology. PREREQUISITE: Instructor's permission.

**MFG 162 (2)**  
**Applied Materials for Manufacturing**

Modular, group-paced course that includes basic introduction to the manufacture and structure of metals, the effects of alloying elements and heat treatment of steel, as well as various destructive and non-destructive testing methods. Emphasizes metallurgy in manufacturing processes and machinability of various types of materials. PREREQUISITE: Instructor's permission.

**MFG 163 (1-4)**  
**Training and Practice**

Provides training and practice in the safe and efficient set-up and operation of all basic machine tools, including machine accessories, measuring tools and inspection equipment. Instruction is geared toward those interested only in skills rather than certification. PREREQUISITE: Instructor's permission.

**MFG 168 (1-13)**  
**Mastercam Level One**

Introduction to Mastercam, including geometry, contouring, and tool paths. No CNC shop machining performed. PREREQUISITE: Instructor's permission.

**MFG 169 (1-13)**  
**Mastercam Level Two**

Continuation of beginning Mastercam, including geometry, contouring, and tool paths. No CNC shop machining performed. PREREQUISITE: Instructor's permission.

**MFG 177 (1-13)**  
**Manufacturing Work Experience**

Offers learners an opportunity to work full- or part-time in manufacturing jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Instructor's permission.

**MFG 178 (1-13)**  
**CNC Manufacturing Work Experience**

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.

**Maintenance Mechatronics (MTX)**

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

Covers industry and workplace safety awareness and practices in-depth. Prepares the entry level machine maintenance technician with the knowledge and skills necessary to maintain, diagnose, and repair elementary hydraulic and pneumatic systems. Introduces students to the fundamental mechanical concepts necessary for the installation, operation, and maintenance of industrial machinery. Students acquire the skills to design and interpret industrial prints and component schematics. Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: Eligible for ENGL 081, MATH 062, and READ 104; or instructor's permission.

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

Covers techniques of assembling, rigging, and installing mechanical equipment. Students learn to work with mechanical transmission devices, including procedures for installation, removal, and maintenance. Upon completion students will have an understanding of preventive, predictive, corrective, and reliability-centered maintenance. Students study the development of a comprehensive maintenance program and learn how to use a computerized maintenance management system. Basic computer skills are highly recommended: Windows, Internet and Email. PREREQUISITE: MTX 100; and Eligible for ENGL 081, MATH 062, and READ 104; or instructor's permission.

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

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

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

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

**Mathematics (MATH)**

**MATH 062 (5)**  
**Review of Arithmetic**

Study of the basic operations of arithmetic and an overview of basic geometry concepts. Topics include whole numbers, fractions, decimals, percents, ratios, proportions, place value, roots, and basic concepts related to measurements and geometry. Incorporates hands-on manipulatives and study skills related to learning math concepts. PREREQUISITE: BASIC 053 or appropriate placement test score.

**MATH 062J (2)**  
**Jump Start into Review of Arithmetic**

A brief review of math skills needed to succeed in MATH 062, including study skill tips for math classes. Class culminates with an opportunity to re-evaluate math placement. This is a pass/no-credit course.

**MATH 062R (1-2)**  
**Review of Arithmetic-Resource Module**

Uses self-paced, individual computer mediated learning to supplement concepts learned in MATH 062. Recommended for students who want extra work in MATH 062 and for those who need to work on specific skills to prepare for MATH 062. Students use software to learn standard concepts from MATH 062. Students investigate Math Learning Center resources such as videos, computers, supplementary books, and/or drop-in tutoring to work on concepts learned in MATH 062. A minimum of 22 hours of work must be completed to receive one credit, 44 hours for two credits. This is a pass/no-credit course.

**MATH 070 (5)**  
**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 with a grade of 2.5 or higher; or appropriate placement test score; or high school transcript evaluation.

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### **MATH 070J (2)** **Jump Start into Pre-Algebra**

A brief review of math skills needed to succeed in MATH 070, including study skills tips for math classes. Class culminates with an opportunity to re-evaluate math placement. This is a pass/no-credit course.

### **MATH 070R (1-2)** **Pre-Algebra Resource Module**

Uses self-paced, individual computer mediated learning to supplement concepts learned in MATH 070. Recommended for students who want extra work in MATH 070 and for those who need to work on specific skills to prepare for MATH 070. Students use software to learn standard concepts from MATH 070. Students investigate Math Learning Center resources such as videos, computers, supplementary books, and/or drop-in tutoring to work on concepts learned in MATH 070. A minimum of 22 hours of work must be completed to receive one credit, 44 hours for two credits. This is a pass/no-credit course.

### **MATH 072 (5)** **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: MATH 070 with a grade of 2.5 or higher; or appropriate placement test score; or high school transcript evaluation.

### **MATH 072.1 (5)** **Extended Elementary Algebra**

Topics include a subset of topics covered in the regular MATH 072 course including a study of sets, 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. Graphing calculator required. PREREQUISITE: Instructor's permission.

### **MATH 072J (2)** **Jump Start into Elementary Algebra**

A brief review of algebra skills needed to succeed in MATH 072, including study skill tips for math classes. Class culminates with an opportunity to re-evaluate math placement. This is a pass/no-credit course.

### **MATH 072R (1-2)** **Elementary Algebra Resource Module**

Uses self-paced, individual computer mediated learning to supplement concepts learned in MATH 072. Recommended for students who want extra work in MATH 072 and for those who need to work on specific skills to prepare for MATH 072. Students use software to learn standard concepts from MATH 072. Students investigate Math Learning Center resources such as videos, computers, supplementary books, and/or drop-in tutoring to work on concepts learned in MATH 072. A minimum of 22 hours of work must be completed to receive one credit, 44 hours for two credits. This is a pass/no-credit course.

### **MATH 085 (5)** **Technical Mathematics 1**

Study of solving equations, solving formulas, proportions, percents, calculator operations, measurement systems and geometry. For technical students only. PREREQUISITE: MATH 070 with a grade of 2.5 or higher; or appropriate placement test score; or high school transcript evaluation; or instructor's permission.

### **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 116T with a grade of 2.5 or higher; or appropriate placement test score; or high school transcript evaluation. RECOMMEND: Eligible for READ 104.

### **MATH 097J (2)** **Jump Start into Intermediate Algebra**

A brief review of math skills needed to succeed in MATH 097, including study skill tips for math classes. Class culminates with an opportunity to reevaluate math placement. This is a pass/no-credit course.

### **MATH 097R (1-2)** **Intermediate Algebra-Resource Module**

Uses self-paced, individual computer mediated learning to supplement concepts learned in MATH 097. Recommended for students who want extra work in MATH 097 and for those who need to work on specific skills to prepare for MATH 097. Students use software to learn standard concepts from MATH 097. Students investigate Math Learning Center resources such as videos, computers, supplementary books, and/or drop-in tutoring to work on concepts learned in MATH 097. A minimum of 22 hours of work must be completed to receive one credit, 44 hours for two credits. This is a pass/no-credit course.

### **MATH 106 (5)** **Essentials of Pre-Calculus Mathematics**

Study of polynomial, rational, exponential, logarithmic, and trigonometric functions; algebraic combinations of functions, composition of functions, transformation of functions, and inverse functions. Additional topics may include complex numbers, polar coordinates, and parametric equations. Graphing calculator required. PREREQUISITE: Completion of high school pre-calculus with trigonometry with a grade of B average or higher within the last two years; or appropriate placement test score; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.

### **MATH& 107 (5)** **Math in Society**

Study of a variety of mathematical topics that include finance, statistics, and probability. Additional topics may include voting theory, fair division, networks, scheduling, apportionment and other fields. PREREQUISITE: MATH 097 with a grade of 2.0 or higher; or appropriate placement test score; or high school transcript evaluation. Satisfies a natural science or quantitative skills requirement for AA degree.

### **MATH 108 (5)** **Contemporary Math for Information Technology**

Study of a variety of mathematical topics related to information technology, including routes and networks, scheduling, statistics, probability, the decimal, binary and hexadecimal number systems, logic gates and Boolean algebra. PREREQUISITE: MATH 097 with a grade of 2.0 or higher; or appropriate placement test score; or instructor's permission. Satisfies natural science requirement for AA degree.

### **MATH 115T (5)** **Technical Algebra/Trigonometry 1**

Study of solving equations, solving formulas, proportions, percents, calculator operations, measurement systems, geometry, and right triangle and oblique triangle trigonometry. For technical students only. PREREQUISITE: MATH 070 with a grade of 2.5 or higher; or appropriate placement test score; or high school transcript evaluation; or instructor's permission.

### **MATH 116T (5)** **Technical Mathematics 2**

Study of right and oblique triangles, trigonometric functions, radian measure, vectors, circles, linear and angular velocity, trigonometric identities and equations, and complex numbers and their applications to technical fields. For technical students only. PREREQUISITE: MATH 085 or MATH 115T or MATH 072 with a grade of 2.0 or higher; or appropriate placement test score; or high school transcript evaluation; or instructor's permission.

**MATH 117T (5)**  
**Technical Mathematics 3**

Study of systems of linear equations, polynomials, factoring, quadratic equations, radical equations, common and natural logarithms, and their applications to technical areas. For technical students only. PREREQUISITE: MATH 116T with a grade of 2.0 or higher; or high school transcript evaluation; or instructor's permission.

**MATH& 141 (5)**  
**PreCalculus I**

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 117T 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.

**MATH& 142 (5)**  
**PreCalculus II**

Study of trigonometric functions and their applications, inverse trigonometric functions, trigonometric equations, trigonometric identities, solutions of right and oblique triangles, complex numbers, vectors, polar coordinates, parametric equations, conics, and matrices. Graphing calculator required. PREREQUISITE: MATH& 141 with a grade of 2.0 or higher; or appropriate placement test score; or high school transcript evaluation. Satisfies a natural science or quantitative skills requirement for AA degree.

**MATH 147 (5)**  
**Finite Mathematics-Business and Social Science**

Study of graphs and solutions of linear equations, systems of equations, matrices, linear inequalities and linear programming, the simplex method, piecewise defined, quadratic, polynomial, rational exponential and logarithmic functions, and financial formulas. Many problems and examples are drawn from the fields of business, economics, and social science. Graphing calculator required. PREREQUISITE: MATH 097 with a grade of 2.0 or higher; or appropriate placement test score; or high school transcript evaluation; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.

**MATH& 148 (5)**  
**Business Calculus**

Study of differential and integral calculus of polynomial, logarithmic and exponential functions. Many problems and examples are drawn from the fields of business, economics, and social science. Graphing calculator required. PREREQUISITE: MATH 147 with a grade of 2.0 or higher; or appropriate placement test score; or high school transcript evaluation; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.

**MATH& 151 (5)**  
**Calculus I**

The first course of a four-quarter calculus sequence. Introduces students to differential calculus and related applications. Topics include limits, derivatives of algebraic and transcendental functions, optimization, linearization, numerical methods, modeling. Graphing calculator required. PREREQUISITE: MATH& 142 or MATH 106 with a grade of 2.0 or higher; or appropriate placement test score; or high school transcript evaluation; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.

**MATH& 152 (5)**  
**Calculus II**

The second course of a four-quarter calculus sequence. Introduces students to integral calculus and related applications. Topics include antiderivatives of algebraic and transcendental functions, the Fundamental Theorem of Calculus, techniques of integration, areas, volumes, moments and centers of mass, numerical methods. Graphing calculator required. PREREQUISITE: MATH& 151 with a grade of 2.0 or higher; or appropriate placement test score; or high school transcript evaluation; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.

**MATH& 153 (5)**  
**Calculus III**

The third course of a four-quarter calculus sequence. Introduces students to sequences, series, and higher-dimensional space. Topics include convergence tests; vectors; analytic geometry; vector-valued functions. Graphing calculator required. PREREQUISITE: MATH& 152 with a grade of 2.0 or higher; or appropriate placement test score; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.

**MATH& 171 (5)**  
**Mathematics for Elementary Education I**

Introduces problem-solving techniques, number theory, set theory, and numeration systems related to topics taught at the K-8 level. Recommended for prospective or practicing elementary and middle school teachers. PREREQUISITE: MATH 097 with a grade of 2.5 or higher; or appropriate placement test score; or high school transcript evaluation; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree. Formerly MATH 170.

**MATH& 172 (5)**  
**Mathematics for Elementary Education II**

Study of geometry and its applications including problem solving techniques and concepts in measurement. Recommended for prospective or practicing elementary and middle school teachers. PREREQUISITE: MATH& 171 with a grade of 2.0 or higher or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree. Formerly MATH 171.

**MATH& 173 (5)**  
**Mathematics for Elementary Education III**

Study of the fundamental nature of the real number system and its subsystems, applications of basic probability and statistics, and problem solving. Recommended for prospective or practicing elementary and middle school teachers. PREREQUISITE: MATH& 171 with a grade of 2.0 or higher or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree. Formerly MATH 172.

**MATH 177-179 (1-12)**  
**Math Work Experience 1-3**

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. Credits may apply toward the completion of a certificate and/or program. PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.

**MATH 194 (1-5)**  
**Special Topics-Mathematics**

Study of specialized mathematical topics. Topics presented depend upon interest and staffing. Possible areas of study include number theory, probability, logic, mathematics for parents, and computer applications. PREREQUISITE: Instructor's permission and eligible for READ 104. This is a pass/no-credit course.

**MATH 210 (5)**  
**Discrete Mathematics**

Study of proofs; one-to-one, onto, inverse and composite functions; properties of relations; sets including cardinality, countability and the Pigeonhole Principle; Boolean algebras including de Morgans Laws; logic including propositional logic and digital logic; and counting techniques including permutations and combination. PREREQUISITE: Either MATH 106 or MATH& 142 with a grade of 2.0 or higher; or appropriate placement score; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.

**MATH 238 (5)**  
**Differential Equations**

Study of the theory and solutions of first and second order differential equations, existence and uniqueness theorems, numerical methods of solution, and applications. Additional topics may be chosen from the following: series solutions for differential equations, systems of linear differential equations, Laplace transforms, and stability theory. Graphing calculator required. PREREQUISITE: MATH& 254 with a grade of 2.0 or higher; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.

**MATH 240 (5)**  
**Topics in Linear Algebra**

Study of systems of linear equations, vector spaces, matrices and matrix equations, eigenvalues and eigenvectors, linear transformations, and applications. Graphing calculator required. PREREQUISITE: MATH& 152 with a grade of 2.0 or higher; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.

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### **MATH& 254 (5)** **Calculus IV**

The fourth course of a four-quarter calculus sequence. Introduces students to functions of two and three variables; limits and continuity; partial differentiation; gradients; multiple integration; iterated integrals; vector analysis including such topics as divergence, curl, line integrals, and the fundamental theorems of vector calculus. Graphing calculator required. PREREQUISITE: MATH& 153 with a grade of 2.0 or higher; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.

### **MATH 256 (5)** **Statistics for Business and Social Science**

Study of descriptive and inferential statistics; boxplots, histograms and scatterplots; introduction to design of experiments; measures of central tendency; frequency distributions; probability distributions; sampling and sampling distributions; hypothesis testing; confidence intervals; and linear regression. PREREQUISITE: Either MATH& 106, MATH& 141 or MATH 147 with a grade of 2.0 or higher; or instructor's permission. RECOMMEND: Eligible for READ 104. Satisfies a natural science or quantitative skills requirement for AA degree.

### **MATH 294 (1-5)** **Special Topics in Mathematics**

Focuses on special topics in math that are not part of the regular curriculum. Content varies from course to course. PREREQUISITE: Instructor's permission.

### **MATH 297 (1-5)** **Independent Study-Mathematics**

Encourages students to independently study an area or topic of special interest in mathematics. Students meet on a tutorial basis with the instructor. PREREQUISITE: MATH& 148, & 151 or MATH 256 with a grade of 2.0 or higher and instructor's permission.

## **Music (MUSC)**

### **MUSC 101 (5)** **Fundamentals of Music**

Covers basic note and rhythm reading, chords and scales, aural skills and fundamentals of songwriting. Includes an examination of chord symbols and progressions, melody, lyrics and form. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 103 (5)** **American Popular Music**

Discusses the study of the history and genesis of American popular music from its birth to the present day. Students study and listen to folk music, Dixieland and jazz, Broadway shows, rock and roll and current musical trends. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 104 (5)** **Music in World Culture**

Introduces the traditional and popular music of cultures from around the globe, including Africa, Asia, Europe, and North and South America. Explores a number of rich and fascinating musical traditions as well as the roles of musical practices in larger cultural contexts. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC& 105 (5)** **Music Appreciation**

Introduces the music of the great master composers beginning with the elements of music and progressing through the common style periods. Includes listening lab. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 107 (5)** **History of Jazz**

Jazz is the first uniquely American music and has a rich and exciting history, as well as a profound impact on American and world culture. Introduces the students to jazz as a body of music and as a product of a fascinating dialog within and between cultural spheres: African diasporic, American, and African-American. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 108 (5)** **Introduction to Computer Music**

Introduction to computer assisted notation, composition and performance using a computer, digital keyboard, and software for notation (Finale) and digital sequencing (Reason). Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 109 (5)** **Intermediate Computer Music**

A continuation of MUSC 108 with more in-depth study of sequencing software (Reason), including the construction of unique combinations, drum patterns and fills, and advanced study of mix-down procedures and use of multiple effects processors. PREREQUISITE: MUSC 108 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 110 (5)** **Advanced Computer Music**

A continuation of MUSC 109 with advanced study of sequencing software (Reason) including construction of patches from basic (raw) synthesized sounds, incorporation of various external sampling techniques, and advanced study of each of the individual onboard synthesizers and sample players. PREREQUISITE: MUSC 109 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 118 (1-3)** **Concert Choir 1**

Students prepare and present selected choral works. Gives an in-depth study of fundamentals of vocal production. One required evening performance each quarter. Satisfies an activity or a humanities/fine art/English requirement for AA degree.

### **MUSC 119 (1-3)** **Concert Choir 2**

Continuation of MUSC 118. Students prepare and present selected choral works. Gives an in-depth study of fundamentals of vocal production. One required evening performance each quarter. PREREQUISITE: MUSC 118. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 120 (1-3)** **Concert Choir 3**

Continuation of MUSC 119. Gives an in-depth study of fundamentals of vocal production. One required evening performance each quarter. PREREQUISITE: MUSC 119. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC& 121 (2)** **Ear Training 1**

Students study simple intervals, triads and rhythm through a program designed to train the ear to identify and write down simple musical structures from dictation. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC& 122 (2)** **Ear Training 2**

Students continue to study simple and compound intervals, basic four-part harmony, rhythm and pitch through a program designed to train the ear to identify and write down musical structures from dictation. PREREQUISITE: MUSC& 121. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC& 123 (2)** **Ear Training 3**

Continues to study simple and compound intervals, triads and seventh chords in four-part harmony and complete melodies through a program designed to train the ear to identify and write down musical structures from dictation. PREREQUISITE: MUSC& 122. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 124 (5)** **Musical Rehearsal and Performance**

Students participate in a musical comedy or drama as a performer or technician. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

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

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

**MUSC 127 (1-5)**  
**Green River Jazz Voices 1**

Prepares and presents choral music in classical, jazz, and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. BY AUDITION ONLY. PREREQUISITE: Instructor's permission. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

**MUSC 128 (1-5)**  
**Green River Jazz Voices 2**

Prepares and presents classical, jazz, and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. BY AUDITION ONLY. PREREQUISITE: MUSC 127 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 129 (1-5)**  
**Green River Jazz Voices 3**

Prepares and presents choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. BY AUDITION ONLY. PREREQUISITE: MUSC 128 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 130.1 (1)**  
**Private Instruction 1**

Individual instruction in voice or on any common instrument. PREREQUISITE: Instructor's permission. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

**MUSC 130.2 (1)**  
**Private Instruction 2**

Individual instruction in voice or on any common instrument. PREREQUISITE: MUSC 130.1 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 130.3 (1)**  
**Private Instruction 3**

Individual instruction in voice or on any common instrument. PREREQUISITE: MUSC 130.2 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC& 131 (3)**  
**Music Theory 1**

Covers the study of basic music notation with emphasis on intervals, scales, key signatures, triads, principles of rhythm and simple harmonization in four parts on the grand staff. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC& 132 (3)**  
**Music Theory 2**

Continuation of MUSC& 131. Covers the study of diatonic harmony including the dominant seventh chord, non-harmonic tones, cadences and inversions in a variety of choral and keyboard textures in common practice style. Includes analysis, composition and performance. PREREQUISITE: MUSC& 131. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC& 133 (3)**  
**Music Theory 3**

Continues to study diatonic harmony including diminished and half-diminished seventh chords, minor and major seventh chords, simple two- and three-part form, secondary dominants and an introduces tonal counterpoint. PREREQUISITE: MUSC& 132. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 140 (2)**  
**Class Piano 1**

Offers basic piano pedagogy in a group classroom situation. Teaches hand positions, fingering, and basic chord structure. Beginning music majors or minors who do not meet piano proficiency must enroll in Class Piano until they meet requirements. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

**MUSC 141 (2)**  
**Class Piano 2**

Offers basic piano pedagogy in a group classroom situation. Covers hand positions, fingering, and basic chord structure. Beginning music majors or minors who do not meet piano proficiency must enroll in Class Piano until they meet requirements. PREREQUISITE: MUSC 140. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 142 (2)**  
**Class Piano 3**

Offers basic piano pedagogy in a group classroom situation. Covers hand positions, fingering, and basic chord structure. Beginning music majors or minors who do not meet piano proficiency must enroll in Class Piano until they meet requirements. PREREQUISITE: MUSC 141. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 218 (1-3)**  
**Concert Choir 4**

Continuation of MUSC 120. Students prepare and present selected choral works. Students study the basics of vocal production. One required evening performance each quarter. PREREQUISITE: MUSC 120. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 219 (1-3)**  
**Concert Choir 5**

Continuation of MUSC 218. Students study the basics of vocal production. One required evening performance each quarter. PREREQUISITE: MUSC 218. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 220 (1-3)**  
**Concert Choir 6**

Continuation of MUSC 219. Students prepare and present selected choral works. Students study the basics of vocal production. One required evening performance each quarter. PREREQUISITE: MUSC 219. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC& 221 (2)**  
**Ear Training 4**

Continues where the first-year ear training sequence leaves off. Emphasizes the following skills in rhythmic reading and dictation in one and two parts, aural recognition and analysis of harmonic progressions, and sight singing and melodic dictation. PREREQUISITE: MUSC& 123 with a 2.0 or higher, or instructor's permission, and concurrent enrollment in MUSC 231. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC& 222 (2)**  
**Ear Training 5**

Continues where the MUSC& 221 leaves off. Emphasizes the following skills in rhythmic reading and dictation in one and two parts, aural recognition and analysis of harmonic progressions, and sight singing and melodic dictation. PREREQUISITE: MUSC& 221 with a 2.0 or higher, or instructor's permission, and concurrent enrollment in MUSC& 232. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 227 (1-5)**  
**Green River Jazz Voices 4**

Students prepare and present choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. BY AUDITION ONLY. PREREQUISITE: MUSC 129 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 228 (1-5)**  
**Green River Jazz Voices 5**

Students prepare and present choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. BY AUDITION ONLY. PREREQUISITE: MUSC 227 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**MUSC 229 (1-5)**  
**Green River Jazz Voices 6**

Students prepare and present choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. BY AUDITION ONLY. PREREQUISITE: MUSC 228 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

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### **MUSC 230.1 (1)** **Private Instruction 4**

Individual instruction in voice or on any common instrument. PREREQUISITE: MUSC 130.3 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 230.2 (1)** **Private Instruction 5**

Individual instruction in voice or on any common instrument. PREREQUISITE: MUSC 230.1 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 230.3 (1)** **Private Instruction 6**

Individual instruction in voice or on any common instrument. PREREQUISITE: MUSC 230.2 and instructor's permission. Student pays instructor fee. Satisfies humanities/fine arts/English requirement for AA degree.

### **MUSC& 231 (3)** **Music Theory 4**

Continues where the first-year music theory sequence leaves off. Addresses advanced harmony, form, "nonfunctional" harmony, and jazz and popular music harmony. PREREQUISITE: MUSC& 131 with a 2.0 or higher, or instructor's permission, and concurrent enrollment in MUSC& 221. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC& 232 (3)** **Music Theory 5**

Continues where MUSIC& 231 left off. Addresses advanced chromatic harmony, form, and jazz and popular music harmony. PREREQUISITE: MUSC& 231 with a 2.0 or higher; or instructor's permission, and concurrent enrollment in MUSC& 221. Satisfies a humanities/fine arts/English requirement for AA degree.

### **MUSC 298 (1-5)** **Independent Study-Music 1**

Encourages students to study independently in their fields of special interest in music. Each student meets on a tutorial basis with the instructor. PREREQUISITE: Instructor's permission.

### **MUSC 299 (1-5)** **Independent Study-Music 2**

Encourages students to study independently in their fields of special interest in music. Each student meets on a tutorial basis with the instructor. PREREQUISITE: MUSC 298 and instructor's permission.

## **Natural Resources (NATRS)**

### **NATRS 100 (5)** **Introduction to Natural Resources**

Introduces the study of natural resources outdoors and in a classroom setting. Explores natural resources careers. Introduces concepts of systems, Biomes, forest biology, tree physiology, forest ecology, silviculture, water resources, fish and wildlife management, and fire ecology. Students study forest history, forest policy, and forest ownership. PREREQUISITE: Eligible for ENGL 099. NATRS 172 or concurrent enrollment and instructor's permission.

### **NATRS 114 (1)** **Chainsaw Operation and Maintenance**

Students demonstrate competency using small engine-powered forestry equipment. Teaches safety, maintenance, repairs and operation of the equipment. Emphasizes how the equipment is used in current forestry operations. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **NATRS 117 (2)** **Aerial Photography Uses and Ground Based Mapping**

Studies and uses maps and aerial photographs to interpret vegetation and landforms, measure distance and direction, and navigate. Aviation students become proficient in identifying ground development through the use of aerial photography. Surveys remote sensing technologies used in GIS and Aviation. Course not intended for Natural Resources majors. PREREQUISITE: Eligible for ENGL 099 and any 100-level MATH course or concurrent enrollment, and instructor's permission.

### **NATRS 120 (5)** **Riparian Restoration**

Introduces the concepts and applications of stream and wetland restoration. Topics include function and structure of riparian systems, historical conditions of streams and wetlands, an overview of associated plant communities and wildlife, analysis of various management methods, and tools, materials, and equipment used in restoration.

### **NATRS 121 (4)** **Introduction to Community Forestry**

Introduces the concepts and applications of community forestry including the use and care of native and ornamental plants in urban and suburban settings. Topics include an overview of silvics, plant propagation, soils, water needs, pruning, plant health, fertilizers, integrated pest management, regulations and environmental laws, safety, customer service, business management, and greenhouse management. Uses demonstrations and labs inside and outside.

### **NATRS 122 (3)** **Urban Ecology**

Continues and adds to topics learned in NATRS 121 toward understanding synecology in the urban and suburban settings. Uses demonstrations and labs inside and outside. PREREQUISITE: NATRS 121 or instructor's permission.

### **NATRS 123 (12)** **Background Watershed and Forest Assessment**

A field intensive course that covers uses and management of watersheds and the forests contained therein. This course teaches watershed scale assessments from the ocean to the headwaters, backcountry management, and human dimensions of wilderness use including forest harvesting practices across the State of Washington. Topics include land use assessment and management impacts through extensive field exercises in individual, team, and group situations. Students conduct basic trail maintenance, orienteering and examine uses and misuses of backcountry resources. Students create a field journal including a management plan for effective backcountry use. Summer field trip includes base camping, backpacking and/or backcountry day hiking and field-intensive studies. PREREQUISITE: NATRS 270 and instructor's permission.

### **NATRS 130 (4)** **Wildland Firefighter Training I-100 and S-130/190**

Training for Type 2 wildland firefighters in basic firefighting skills. Complies with Northwest Wildfire Coordinating Group standards for I-100, S-130, and S-190 courses. Coursework reviews the ICS organization, terminology, and common responsibilities. Includes standard firefighting orders, watch-out situations, human factors on the fire line, suppression tactics, incident response, basic fire behavior, emergency situations, risk management, and fire weather. Includes a one-day practicum. This is a pass/no-credit course.

### **NATRS 131 (1)** **Advanced Wildland Firefighter Training S-131**

Sequence training course for Type 2 wildland firefighters in advanced firefighting skills leading to squad boss (FFTI) and incident commander type 5 (ICT5). Complies with Northwest Wildfire Coordinating Group (NWCG) standards for S-131 course. Coursework is interactive and uses group discussions to evaluate documentation, communications, firefighting tactics, and safety/risk management. Requires documented wildfire experience. PREREQUISITE: NATRS 130 or instructor's permission; or proof of certificate of ICS S-130 & S-190; and wildlife experience as documented in NWCG task book. This is a pass/no-credit course.



**NATRS 132 (2)**  
**Wildland Firefighter Crew Boss S-230**

Sequence training course for wildland firefighters leading to single resource crew boss. Complies with Northwest Wildfire Coordinating Group (NWCG) standards for S-230 course. Studies wildfire preparation, mission of the crew, mobilization, leadership, crew management and supervision, fire tactics and safety, off-line duties, demobilization, and post-incident responsibilities. Requires completed task book of experience. PREREQUISITE: NATRS 131 or instructor's permission; or proof of certificate of ICS S-131 and completed task book of experience. This is a pass/no-credit course.

**NATRS 133 (1)**  
**Wildland Firefighter Engine Boss S-231**

Sequence training course for wildland firefighters leading to single resource engine boss. Complies with Northwest Wildfire Coordinating Group (NWCG) standards for S-231 course. Studies wildfire organization, mission of engines, mobilization, leadership, crew management and supervision, fire tactics and safety, travel, and fire business management responsibilities. Students operate engine systems. PREREQUISITE: NATRS 131 or instructor's permission; or proof of certificate of ICS S-131 and completed task book experience as engine operator. This is a pass/no-credit course.

**NATRS 134 (3)**  
**Intermediate Wildland Fire Behavior S-290**

Sequence training course for wildland firefighters. Complies with Northwest Wildfire Coordinating Group (NWCG) standards for S-290 course. A rigorous study of the fire triangle, heat transfer, environmental factors that affect fire behavior, fuels, weather, topography, and changes of weather that affect safety. PREREQUISITE: NATRS 130 or instructor's permission; or proof of certificate of ICS-190. This is a pass/no-credit course.

**NATRS 161 (4)**  
**Wildlife Habitat Management**

Study the management of wildlife and wildlife habitats to encourage incidence and diversity of mammals, birds, amphibians, and reptiles. Students develop field wildlife research projects to aid management skills. Students visit, observe, and participate in actual projects, giving them opportunities to see Pacific Northwest wildlife in its ever-changing environments within the growing research-based industry. PREREQUISITE: Eligible for ENGL 099; and NATRS 172; and instructor's permission.

**NATRS 162 (3)**  
**Biology and Conservation of Birds**

Explores the major principles of natural history, avian reproductive biology, population ecology and conservation strategies for hunted and nonhunted bird. Introduces field identification skills and field methodologies through indoor labs and field exercises. PREREQUISITE: Eligible for ENGL 099; and NATRS 172 or concurrent enrollment, and instructor's permission.

**NATRS 172 (4)**  
**Computer Applications Overview**

Topics include data location collection techniques, Global Positioning Systems (GPS), hand-held data recorders, Excel uses, development of forestry databases, PowerPoint skills, map preparation using Geographic Information System (GIS) software, cost analysis techniques, and development of an employment portfolio. For Natural Resources students. RECOMMEND: NATRS 100 be taken concurrently. PREREQUISITE: Instructor's permission.

**NATRS 180 (5)**  
**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 182 (8)**  
**Aerial Photos, GIS and Forest Navigation**

Teaches the use of compass and chain/tape, mapping, map reading, topography, orientation, area determination, triangulation, the U.S. survey system, note keeping, field reporting, GPS (Global Positioning Systems), pacing. Studies and uses aerial photographs to interpret vegetation and land forms, measure distance and direction, and to navigate. Uses extensive field exercises in individual, team, and group situations. Students conduct basic tree measurements as well as open and closed traverses of roads, trails, and areas. Students apply previously learned mathematical concepts and field skills. PREREQUISITE: NATRS 180 with a grade of 2.0 or higher; and instructor's permission.

**NATRS 183 (5)**  
**Tree and Shrub Identification**

Collects specimens and identifies common 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 184 (3)**  
**Shrub and Wildflower Identification**

Collects specimens and identifies common trees, shrubs, and wildflowers found in Washington forests. Teaches the use of taxonomic keys and their ecological characteristics and growth habits. PREREQUISITE: NATRS 183 or instructor's permission.

**NATRS 185 (5)**  
**Shrub and Flower Systematics**

Collects specimens and identifies common trees, shrubs, and flowers found in urban forestry. Teaches the use of taxonomic keys and their ecological characteristics and growth habits.

**NATRS 186 (4)**  
**Bio-Invasions**

Walks students through the positive identification of invasive species and noxious weeds in Washington State. 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. PREREQUISITE: Eligible for ENGL& 101; and NATRS 172 or equivalent; and instructor's permission.

**NATRS 198-199 (1-5)**  
**Independent Study-Natural Resources 1-2**

Encourages natural resources students to study and develop independently in their special interests. Students must obtain approval on their selected special study project from the instructor. PREREQUISITE: Instructor's permission.

**NATRS 205 (4)**  
**Wildland Recreation**

Students learn skills needed to develop and manage wildland parks and recreational sites for private, state, and federal owners. Students visit, observe, and participate in actual projects within the growing wildland recreational industry. PREREQUISITE: Eligible for ENGL 099 and 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, 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: BTAC 100 or NATRS 172; and ENGL& 101 or concurrent enrollment, and instructor's permission.

**NATRS 270 (5)**  
**Stream and Wetland Ecology**

Students gain an understanding of stream, pond, and wetland ecology. Students study stream and wetland dynamics, associated plant and animal ecology, streamflow hydraulics, and Washington Forest Practices Regulations. Students conduct measurements and sampling within ponds, streams, and wetlands with follow-up analysis and reports. PREREQUISITE: Instructor's permission.

## 170 Course Descriptions

### **NATRS 271 (5)** **Stream and Wetland Restoration**

Stream and wetland restoration is an important issue in 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. Class is taught with lecture, field sampling, demonstrations, and interviews with agencies and private organizations. PREREQUISITE: Eligible for ENGL 099, NATRS 100 and NATRS 172 or concurrent enrollment; and instructor's permission.

### **NATRS 272 (5)** **Fish Identification and Habitat**

Covers the classification, identification, anatomy and physiology, age and growth, behavior, life history, and habitat of fish of the Pacific Northwest. Examines the importance of fish in our society and investigates related regulations and policies. PREREQUISITE: Instructor's permission.

### **NATRS 284 (6)** **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: Instructor's permission and NATRS 181 with a grade of 1.5 or higher.

### **NATRS 286 (5)** **Natural Resources Business Principles**

A study of human relations and business activities unique to small independent businesses and organizations. Emphasizes contract supervision and consulting/contracting in natural resources management. Includes study of interactions of individuals, teams and crews, organizations, and business ethics. Teaches the types of ownership, organization, state and federal laws, contracts, taxation, insurance, payroll, finance, accounting, customer relations, personnel management, and negotiation. PREREQUISITE: ENGL 099 or concurrent enrollment; and NATRS 172 or concurrent enrollment, and instructor's permission.

### **NATRS 290 (1)** **Internship Seminar**

For career-oriented natural resources students as a sequential course to NATRS 294. Covers business letters, resumes, applications, interviewing skills, and internship procedures. Conducts mock interviews and actual interviews for spring internships. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **NATRS 292 (8)** **Resource Sampling and Appraisal of Forest Conditions**

Students acquire skills and knowledge to measure, calculate, and sample resources and forest products to determine value using statistically valid procedures. A rigorous course using skills and knowledge of tree diseases and disasters affecting forest product quality. Includes classroom, field studies and library research. PREREQUISITE: ENGL 099 or concurrent enrollment and NATRS 172 or equivalent and concurrent enrollment and NATRS 182 or concurrent enrollment; and instructor's permission.

### **NATRS 293 (4)** **Silvicultural Analysis and Forest Protection**

Study of silvicultural and forest protection practices common in management of natural resources in the Pacific Northwest. Course prescribes specific management objectives and inventories resources and soils. Students design, measure and report a research project by working independently and in groups, indoors and outdoors. PREREQUISITE: Instructor's permission.

### **NATRS 294.1 (4)** **Natural Resources Internship 1**

Internship requires the student to work full time in a paid or volunteer position for an agency or company that will best help the student enhance his/her technical skills and prepare the student for career employment. The student must earn four credits by working 132 hours during the quarter following completion of the second-year Natural Resources courses. Students find and choose their employers and obtain instructor approval before beginning work. Students must have suitable field clothes and equipment for the internship position. PREREQUISITE: NATRS 290 and instructor's permission. This is a pass/no-credit course.

### **NATRS 294.2 (4)** **Natural Resources Internship 2**

Internship requires the student to work full time in a paid or volunteer position for an agency or company that will best help the student enhance his/her technical skills and prepare the student for career employment. The student must earn four credits by working 132 hours following NATRS 294.1. Students find and choose their employers and obtain instructor approval before beginning work. Students must have suitable field clothes and equipment for the internship position. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **NATRS 294.3 (3)** **Natural Resources Internship 3**

Internship requires the student to work full time in a paid or volunteer position for an agency or company that will best help the student enhance his/her technical skills and prepare the student for career employment. The student must earn three credits by working 99 hours following NATRS 294.2. Students find and choose their employers and obtain instructor approval before beginning work. Students must have suitable field clothes and equipment for the internship position. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **NATRS 294.4 (3)** **Natural Resources Internship 4**

Internship requires the student to work full time in a paid or volunteer position for an agency or company that will best help the student enhance his/her technical skills and prepare the student for career employment. The student must earn three credits by working 99 hours following NATRS 294.3. Students find and choose their employers and obtain instructor approval before beginning work. Students must have suitable field clothes and equipment for the internship position. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

### **NATRS 297-299 (1-5)** **Independent Study-Natural Resources 4-6**

Encourages students to study and develop independently in their area of special interest in natural resources. Students must obtain approval on their study project from the instructor. PREREQUISITE: Instructor's permission.

## **Natural Science (N SCI)**

### **N SCI 194 (1-5)** **Special Topics-Natural Science**

Offers non-lab science subject matter that is not part of the regular curriculum. Content varies from course to course.

## **Nursing Assistant (NRS A)**

### **NRS A 110 (6)** **Nurse Assistant Theory**

Students develop the concepts and knowledge necessary to provide entry level nurse assistant care. PREREQUISITE: Instructor's permission.

### **NRS A 111 (4)** **Nurse Assistant Community Lab**

Students apply knowledge and develop the physical skills necessary to provide entry level nurse assistant care. PREREQUISITE: Concurrent enrollment in NRS A 110.

### **NRS A 112 (2)** **Introduction to Nursing Care Studies**

Students develop the skills necessary to improve learning and retention of nursing care and studies. Includes skills of time management, study techniques, stress reduction, and critical thinking. PREREQUISITE: Concurrent enrollment in NRS A 111.

**Nursing (NURSE)****NURSE 101 (1)  
Introduction to Computers in Nursing**

Introduces use of computers in nursing. Familiarizes students with computers and hospital computerized information systems. Students explore a computer-based hospital information system; learn to apply the nursing process in nursing care development; and practice precise and accurate patient documentation. PREREQUISITE: Instructor's permission.

**NURSE 102 (3)  
Introduction to Clinical Pharmacology in Nursing**

Introduction to clinical drug therapy emphasizing the knowledge and interventions needed to maximize therapeutic effects and prevent or minimize adverse effects of drugs. Major content areas include basic concepts of pharmacology, groups of therapeutic drugs, prototypes of drugs, commonly prescribed individual drugs, drug effects on body tissues, and applying the nursing process in relation to prescribed therapy regimens. PREREQUISITE: Enrollment in Practical Nursing program or instructor's permission.

**NURSE 104 (6)  
Nursing 1-Fundamentals**

Introduces the health-illness continuum, and integrates concepts of basic health and nursing process throughout each unit. PREREQUISITE: Completion of pre-admission requirements.

**NURSE 105 (4)  
Community Lab 1**

Taken concurrently with NURSE 104, this laboratory experience in both long term and acute care settings provides students basic nursing skills, including patient/client assessment, basic hygiene and assistance with activities of daily living. PREREQUISITE: Concurrent enrollment in NURSE 104 and instructor's permission.

**NURSE 106 (8)  
Nursing 2**

Students study diseases through the identification of the relationships and similarities of health problems. Students apply information to all age groups. PREREQUISITE: NURSE 104 and 105 and concurrent enrollment in NURSE 107; and instructor's permission.

**NURSE 107 (8)  
Nursing 2 Community Lab 2**

Lab experience planned concurrently with NURSE 106 in various healthcare settings. PREREQUISITE: NURSE 105 or instructor's permission; and concurrent enrollment in NURSE 106.

**NURSE 109 (8)  
Nursing 3 Community Lab 3**

A lab experience planned concurrently with NURSE 110. Provides opportunity to learn basic to more advanced nursing skills including patient/client assessment, basic hygiene and assistance with activities of daily living. PREREQUISITE: NURSE 105, 107 or instructor's permission.

**NURSE 110 (8)  
Nursing 3**

Study of diseases through the identification of the relationships and similarities of health problems. Students apply this information to all age groups. PREREQUISITE: Enrollment in the Practical Nursing Program; NURSE 106; and concurrent enrollment in NURSE 109; or instructor's permission.

**NURSE 112 (6)  
Nursing 4**

Study of the concepts of mental, physical, and emotional health of the mother and baby. Covers complex health problems through the life span focusing on mental illness and complex medical conditions. PREREQUISITE: NURSE 109 and 110; or instructor's permission; and enrollment in the Practical Nursing program.

**NURSE 113 (6)  
Nursing 4 Community Lab 4**

A lab experience planned concurrently with NURSE 112. Provides opportunity to learn more advanced medical surgical nursing skills, as well as mother/baby care. PREREQUISITE: NURSE 109 and 110; or instructor's permission; and concurrent enrollment in NURSE 112.

**NURSE 114 (2)  
Principles and Practice of Intravenous Therapy**

Provides the novice and experienced nurse with the basic knowledge and awareness of the skills necessary to initiate and monitor intravenous therapy. Methods of instruction are both didactic and practical. PREREQUISITE: Enrollment in Practical Nursing program or instructor's permission.

**NURSE 116 (3)  
Nursing Issues and Delivery Systems**

Introduces the concepts and skills to assist the nurse to remain flexible in the ever-changing nursing care scene. Provides a brief historical overview of nursing practice and identifies trends and nursing issues of the future. PREREQUISITE: NURSE 104.

**NURSE 122 (1)  
Health Professionals CPR with AED**

Provides the nurse assistant and practical nurse students with the basic knowledge and skills for CPR (cardiopulmonary resuscitation) for the health care professional, including the use of the AED (automated external defibrillator). Follows the American Heart Association protocols. PREREQUISITE: Enrollment in Practical Nursing or Nurse Assistant program.

**NURSE 127 (2)  
AIDS/CPR Safety/Inspection Control**

Provides education and training in infant, child, and adult cardiopulmonary resuscitation (CPR), automated external defibrillation (AED), and bag-mask valve techniques for individuals who are responsible for delivering emergency care. Taught according to American Heart Association guidelines for Health Care Providers. An American Heart Association Health Care Provider card will be awarded upon successful completion of the course. Also provides education and training for health care providers of Human Immunodeficiency Virus (HIV) and Acquired Immunodeficiency Syndrome (AIDS) including: medical aspects, epidemiology, transmission, prevention, and treatment.

**NURSE 194 (1-6)  
Special Studies in Nursing**

Enables students to pursue areas of special interest in the nursing field such as gerontology, adult critical care, pediatrics, and fetal monitoring.

**NURSE 198 (1-10)  
Independent Study-Nursing**

Students are responsible to meet with a Nursing advisor and agree to a specific objective contract which identifies unit of credits, and learning experiences to be completed. This contract is filed with the Dean of Instruction, Health Sciences and Education. PREREQUISITE: Instructor's permission.

**NURSE 294 (1-6)  
Special Studies in Nursing 2**

Enables students to pursue areas of special interest in the nursing field such as neonatal intensive care, adult critical care, advanced pediatrics, and advanced fetal monitoring.

**Nutrition (NUTR)****NUTR& 101 (5)  
Nutrition**

Introduction to the role of nutrition in human health. Topics include human metabolism, utilization of nutrients, nutritive value of foods, factors that affect eating habits, food advertising, nutrition and disease, and establishing a healthy lifestyle. This course is particularly suitable for health occupations students. PREREQUISITE: AP 100, AP 103 or BIOL& 160. Satisfies a natural science requirement for AA degree.

**Occupation Therapy Assistant (O T)****O T 100 (3)  
Introduction to Occupational Therapy**

Introduces the practice of occupational therapy, its history and philosophical base. Covers occupational therapy practice framework such as domain and process, the occupational therapy process, and the promotion of health. Introduces ethics and professional behavior. PREREQUISITE: Instructor's permission.

## 172 Course Descriptions

- O T 105 (2)**  
**Clinical Seminar 1**  
Teaches students the basics of client-therapist interaction, documentation, clinical issues, and therapeutic techniques. Includes weekly discussion of concurrent clinical experiences. PREREQUISITE: Instructor's permission and concurrent enrollment in O T 177.
- O T 110 (4)**  
**Fundamentals of Occupational Therapy as Health Care Providers**  
Students learn basic patient-therapist interaction and communication skills, introductory use of medical terminology, patient confidentiality and HIPPA rules, infection control and blood borne pathogens guidelines, and time management skills. Students earn CPR and basic First Aid certificates, and HIV/AIDS certification. PREREQUISITE: Instructor's permission.
- O T 112 (5)**  
**Developmental Disabilities**  
Students study the conditions that impede normal growth and development with special emphasis on cerebral palsy, mental retardation, ADHD/ADD, autism spectrum disorder, childhood genetic disorders, and learning disabilities. Explores developmentally appropriate occupational therapy treatment methods with opportunity for experiential learning of patient handling techniques. Emphasis is placed on the role of the OTA in different pediatric settings and the influence of legislation changes and laws that have influenced OT practice. PREREQUISITE: Instructor's permission.
- O T 114 (5)**  
**Physical Disabilities 1**  
Study of anatomical, physiological and pathological factors relative to specific clinical conditions. Includes a study of basic treatment theory and techniques. Lab allows for practical experience in patient assessment, transfers and daily living skills. PREREQUISITE: H SCI 102 and instructor's permission.
- O T 116 (5)**  
**Physical Disabilities 2**  
Understand the effects of heritable diseases, genetic conditions, disability, trauma, and injury to the physical and mental health and occupational performance of the individual. Demonstrate knowledge and understanding of the structure and function of the human body to include the biological and physical sciences of specific clinical conditions. Describe and demonstrate basic assessment and treatment approaches utilized in occupational therapy intervention of the physically disabled through practical experiences in a lab setting. PREREQUISITE: O T 114 and instructor's permission.
- O T 118 (4)**  
**Psychosocial Dysfunction**  
Students learn the techniques used to meet mental health needs within the occupational therapy setting. Includes the application of psychosocial frames of reference, clinical conditions, and the application of occupational therapy to these conditions. PREREQUISITE: Instructor's permission.
- O T 120 (1)**  
**Professional Advocacy Experience**  
Acquaints students with therapy practitioner's responsibilities in professional activities and for promotion of occupational therapy to other professionals, consumers, third-party payers and the public. PREREQUISITE: Instructor's permission.
- O T 177 (1)**  
**Application of Occupational Therapy Co-op Experience 1**  
Students participate in supervised clinical experience with clients in a community health care facility. Includes observation, planning and implementation of client treatments as assigned by clinical supervisor, and application of theory and treatment techniques. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.
- O T 178 (1)**  
**Application of Occupational Therapy Co-op Experience 2**  
Students participate in supervised clinical experience with patients in a community health care facility. Includes observation, planning and implementation of patient treatments as assigned by clinical supervisor. PREREQUISITE: Instructor permission and concurrent enrollment in O T 225. This is a pass/no-credit course.
- O T 194 (1-2)**  
**Special Topics-Occupational Therapy**  
Intermediate level course that encourages students to study in a special area of occupational therapy. Students attend class on a regular basis to complete course project. PREREQUISITE: Instructor's permission.
- O T 198 (1)**  
**Independent Study-Occupational Therapy**  
For students needing remediation for successful completion of fieldwork experiences, or who wish to explore specific areas of occupational therapy in-depth. Students participate in learning activities needed to remediate deficient areas. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.
- O T 200 (3)**  
**Therapeutic Activities 1**  
A hands-on course that provides students with the opportunity to complete intervention implementation through activities focusing on remediation or compensation to facilitate occupation performance. Focuses on task analysis, adaption of the work place and the teaching-learning process with client, educators and other health care providers. PREREQUISITE: Instructor's permission.
- O T 202 (3)**  
**Ethics, Society, and Professional Practice**  
Provides an overview and understanding of professional ethics and responsibilities including knowledge of ethical principles, professional development, healthcare reimbursement systems and healthcare laws. Also includes critical analysis of social issues including socioeconomics, social injustices, cultural awareness and diversity factors related to the practice of occupational therapy. Students learn through class lectures and discussions as well as practical assignments that promote critical thinking. PREREQUISITE: Instructor's permission.
- O T 223 (5)**  
**Therapeutic Practices in Occupational Therapy**  
An advanced level course that incorporates the application of theories, models of practice, and frames of reference in the analysis, selection and use of activities in a therapeutic environment while addressing the needs of diverse patient populations. Emphasis is placed on the application of the OT Practice Framework in the development of intervention targeting ADL and IADL. Includes instruction in the responsibilities a COTA has in the areas of documentation, record keeping, service operations, research, and safety and infection control. PREREQUISITE: O T 114 and 118.
- O T 225 (1)**  
**Clinical Seminar 2**  
Students learn basics of patient-therapist interaction, documentation, clinical issues, and therapeutic techniques. Also includes weekly discussion of concurrent clinical experiences. PREREQUISITE: Instructor's permission, and concurrent enrollment in O T 178.
- O T 230 (2)**  
**Therapeutic Group Leadership**  
Students study group dynamics as related to occupational therapy. Students learn to plan and implement activity groups appropriate to patients or clients of all ages. Emphasizes group leadership skills. PREREQUISITE: Instructor's permission.
- O T 235 (3)**  
**Therapeutic Activities 2**  
Students learn to plan and implement socioculturally-appropriate therapeutic leisure and social activities for patients/clients in a variety of community settings. Emphasizes gradation and adaptation of leisure and social activities appropriate for a variety of patient/client diagnoses. PREREQUISITE: Instructor's permission.

**O T 240 (5)**

**Therapeutic Adaptations**

An advanced course where students demonstrate previously learned technical skills as well as their knowledge of physical dysfunctions as they work with a variety of material to design, modify, adapt and fabricate special equipment and assistive devices for the disabled. Students demonstrate and articulate the use of technology to support performance, participation, health and well-being. PREREQUISITE: O T 200 or instructor's permission.

**O T 245 (2)**

**Pre-Fieldwork Experience Seminar**

Prepares student for successful completion of Level 2 fieldwork. Emphasizes further development of documentation skills. Additional topics include self-assessment in preparation for full-time fieldwork, job search skills, service operations, and supervision issues. PREREQUISITE: Instructor's permission.

**O T 250 (1)**

**Fieldwork Experience Seminar 1**

Students discuss and problem-solve fieldwork experiences, read and discuss literature appropriate to fieldwork and review OTA program content in preparation for national certification exam. PREREQUISITE: Instructor's permission and concurrent enrollment in O T 277.

**O T 251 (1)**

**Fieldwork Experience Seminar 2**

Students discuss and problem-solve fieldwork experiences, read and discuss literature appropriate to fieldwork, and review OTA program content in preparation for national certification exam. PREREQUISITE: Instructor's permission and concurrent enrollment in O T 278.

**O T 277 (11)**

**Co-op Fieldwork Experience 1**

Fieldwork experience includes practice in one of the following areas: physical disabilities, psychological dysfunction, geriatrics, developmental disabilities, pediatrics, work hardening/pain management, or hand therapy under the supervision of a licensed occupational therapy practitioner. PREREQUISITE: Instructor's permission and concurrent enrollment in O T 250. This is a pass/no-credit course.

**O T 278 (11)**

**Co-op Fieldwork Experience 2**

Fieldwork experience includes practice in one of the following areas: physical disabilities, psychological dysfunction, geriatrics, developmental disabilities, pediatrics, work hardening/pain management, or hand therapy under the supervision of a licensed occupational therapy practitioner. PREREQUISITE: O T 277 and instructor's permission and concurrent enrollment in O T 251. This is a pass/no-credit course.

**Oceanography (OCEA)**

**OCEA& 101 (5)**

**Introduction to Oceanography**

Introduces the fundamental principles of ocean science: the geology and geography of ocean basins; chemistry of sea water; physical dynamics of currents, waves, and tides; coastal processes; how human activity influences ocean environments; and the diverse ecosystems of Earth's oceans such as deep sea vents, coral reefs, and estuaries. PREREQUISITE: Eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**Parent Child Education (PCE)**

**PCE 112-114 (2)**

**Parent-Child Education (0-1 year old)**

Through discussion and laboratory experience, parents explore concepts and learn skills to improve parenting practices with children age birth-12 months. Topics for discussion include growth and development, temperament, sleep, nutrition and child safety. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**PCE 122-124 (2)**

**Parent-Child Education (1-2 year old)**

Through group discussion and laboratory experience, parents explore concepts and learn skills to improve parenting practices with children aged 12-24 months. Topics for discussion include growth and development, guidance and discipline, temperament, and language development. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**PCE 132-134 (2)**

**Parent-Child Education (2-3 years old)**

Through group discussion and laboratory experience, parents explore concepts and learn skills to improve parenting practices with children aged 24-36 months. Topics for discussion include growth and development, guidance and discipline, and play and learning. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**PCE 142-144 (2)**

**Parent-Child Education (3-4 years old)**

Through lecture, group discussion, and laboratory experience, parents explore concepts and learn skills to improve parenting practices with children aged 36-48 months. Topics for discussion include growth and development, guidance and discipline, family communication, and building self-esteem. PREREQUISITE: Instructor's permission.

**PCE 145-147 (2)**

**Parent-Child Education (3-6 years old)**

Through lecture, group discussion, and laboratory experience, parents explore concepts and learn skills to improve parenting practices with children aged 36-72 months. Topics for discussion include growth and development, guidance and discipline, and family communication. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**PCE 152-154 (2)**

**Parent-Child Education (4-5 years old)**

Through lecture, group discussion, and laboratory experience, parents explore concepts and learn skills to improve parenting practices with children aged 4-5 years. Topics for discussion include growth and development, guidance and discipline, family communication, building self-esteem, and school readiness. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**PCE 155-157 (1)**

**Parent-Child Education (4-6 years old)**

Through lecture, group discussion, and laboratory experience, parents explore concepts and learn skills to improve parenting practices with children aged 4-6 years. Discussion and lab activities focus on literacy. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

**Philosophy (PHIL)**

**PHIL& 101 (5)**

**Introduction to Philosophy**

Introduces students to the major problems and figures of philosophy. Gives students a greater understanding of human experience through the examination of the concepts of reality, knowledge and value. Questions posed may include: Does God exist? Do we act freely? Is the mind distinct from the body? Can we ever know anything for certain? What really matters? PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**PHIL 102 (5)**

**Contemporary Moral Problems**

Introduces students to the most urgent moral problems of our day. Provides students with an introduction to ethical theories and their application to contemporary moral problems. Topics may include war and torture, capital punishment, animal rights and the environment, abortion, euthanasia, and liberty. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**PHIL 103 (5)**

**Historical Survey-Ancient Philosophy**

Introduces students to the ancient philosophy of western civilization. Examines the beginnings of philosophy from pre-Socratic ancient Greece up to the early Christian era, including such philosophers as Thales, Pythagoras, Heraclitus, Parmenides, Socrates, Plato, Aristotle, and Epicurus. Emphasizes how past thinkers have influenced current thought and practice. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

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### PHIL 104 (5) Historical Survey-Medieval Philosophy

Introduces students to the medieval philosophy of western civilization. Looks at the period of philosophy from the early Christian era through the scholasticism of the medieval period, including such philosophers as St. Augustine, St. Anselm, Averroes, St. Thomas Aquinas, Duns Scotus and William of Ockham. Emphasizes how past thinkers have influenced current thought and practice. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### PHIL 105 (5) Historical Survey-Modern Philosophy

Introduces students to the philosophy of modern western civilization. Examines the period of philosophy from the humanism of the Enlightenment through the end of the 19th century, including such philosophers as Descartes, Leibniz, Spinoza, Hobbes, Locke, Berkeley, Hume, and Kant. Emphasizes the influence of these philosophers on current thought and practice. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### PHIL 110 (5) Social and Political Philosophy

Introduces students to the major themes of social and political philosophy, including justice, forms of government, revolution, liberty, equality, and civil disobedience. Sample topics include: What is a just distribution of income? What is the best form of government? Should there be limits to free speech? Is one ever justified in disobeying the law? PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### PHIL 112 (5) Ethics in the Workplace

Introduces students to the ethical issues and problems (national and international) that arise in workplace, professional, and organizational settings. Helps students identify and solve these problems within the framework of ethical theory. May include topics such as negotiation, sexual harassment, comparable worth, whistle-blowing, and the rights and responsibilities of employers and employees. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### PHIL 114 (5) Philosophical Issues in Law

Introduces students to the philosophical issues that arise in law and legal reasoning. Sample topics include patterns of legal reasoning, crime and punishment, civil disobedience, affirmative action, freedom of speech, and legal paternalism. Readings may include material from actual legal cases, as well as from philosophical essays. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### PHIL 115 (5) Critical Thinking

Introduces students to informal non-symbolic logic and critical thinking. Sample topics include language analysis, inductive reasoning, statistical analysis, causal reasoning, arguments from analogy and fallacious patterns of reasoning. Students examine arguments in real-life situations, such as in conversations, television presentations, political speeches, editorials, and other writings on various topics. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### PHIL& 120 (5) Symbolic Logic

Introduces students to modern symbolic logic, including both propositional logic translation and proofs and predicate logic translation and proofs. Topics may include recognizing arguments, translating from a natural to a formal language, validity of arguments, logical implication, equivalency, and consistency. PREREQUISITE: MATH 097 with a grade of 2.0 or higher; or eligible for MATH& 107 or higher. Satisfies a natural science requirement or, under certain conditions, the quantitative component of the basic skills requirement for AA degree.

### PHIL 160 (5) Introduction to the Philosophy of Science

Introduces students to a critical look at the methods of inquiry associated with the sciences. Drawing from a broad range of historical and contemporary sources, topics will include: the aim of science; distinguishing science from non-science; scientific explanation, confirmation, and falsification; and the structure of scientific revolutions. Other topics may be discussed. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### PHIL 194 (3-5) Special Topics-Philosophy

Allows students to pursue a philosophical topic that is not part of the regular curriculum. Course content varies depending on requests from students or the opportunity to present special topics. PREREQUISITE: Eligible for ENGL 099 or instructor's permission.

### PHIL 199 (1-5) Independent Study-Philosophy 1

Allows students to independently study a topic of their special interest in philosophy. Students meet on a tutorial basis with a philosophy instructor. Credits, topics, and assignments vary according to student-faculty agreement. PREREQUISITE: Two courses in philosophy, a topic that some member of the department is qualified to direct and evaluate, and permission from the division chair and instructor. Eligible for ENGL 099 or instructor's permission.

### PHIL 200 (5) Introduction to the Philosophy of Religion

Introduces students to the philosophy of religion, exploring such issues as the existence of God, faith and reason, the problem of evil, and the possibility of immortality. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### PHIL 206 (5) Gender and Philosophy

Examines how issues of gender have entered into discussions within the major fields of philosophy, including ethics, theory of knowledge, philosophy of science, philosophy of religion, and social and political philosophy. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirement for AA degree.

### PHIL 210 (5) Comparative Religion

Introduces students to the main religions of the world, including Judaism, Christianity, Buddhism, Hinduism, Zoroastrianism, and Jainism. Helps students to understand the philosophical similarities and differences among these religions. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### PHIL 215 (5) Advanced Studies in Formal Logic

Continues to study the quantitative and symbolic techniques used in formal logic. Covers an advanced study of predicate logic and introduces non-classical logics. Students may also review some metalogic proofs and are introduced to topics in the philosophy of logic. PREREQUISITE: PHIL& 120 with a grade of 2.0 or higher and eligible for MATH& 141. Satisfies a natural science requirement for AA degree.

### PHIL 220 (5) Introduction to Eastern Philosophy

Introduces students to eastern philosophies. Helps students understand the philosophical similarities among these philosophies, especially as they relate to reality, value, knowledge, and religion. Topics may include Hinduism, Buddhism, Confucianism, Mohism, and Taoism. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

### PHIL 236 (5) Existentialism

Explores central themes of Existentialism, including personal responsibility, human freedom, the absence of external sources of value, the absurdity of human existence, and the meaning of life. Examines key philosophical and literary texts central to the Existentialist movement. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**PHIL 238 (5)**  
**Introduction to Philosophy of Human Rights**

Introduces students to some of the major issues concerning human rights. Sample topics include: Are there such things as human rights? Are human rights universal or are they culturally relative? Are minority rights exceptions to or different from human rights? Do future people have rights? PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

**PHIL 240 (5)**  
**Introduction to Ethics**

Introduces students to a philosophical study of morality. Helps students to understand and analyze competing ethical claims based on such standards as happiness, duty, human nature, theology, and custom. Questions considered may include: What makes actions right, if anything? What makes anything good or evil, if anything? What, if anything, makes a person a good person? PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**PHIL 243 (5)**  
**Environmental Ethics**

Introduces students to the moral relations between human beings and their natural environment. Topics include animal rights, population and consumption, pollution, climate change, economics and the environment, and sustainability. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**PHIL 299 (1-5)**  
**Independent Study-Philosophy 2**

Allows students to independently study a topic of their special interest in philosophy. Students meet on a tutorial basis with a philosophy instructor. Credits, topics, and assignments vary according to student-faculty agreement. PREREQUISITE: Two courses in philosophy, a topic that some member of the department is qualified to direct and evaluate, and permission from the division chair and instructor. Eligible for ENGL 099 or instructor's permission.

**PHIL 412 (5)**  
**Professional Ethics**

Provides an advanced approach to ethical issues across the professions. Topics include intellectual property rights and piracy, truth-telling vs. well-meaning deception, privacy and confidentiality, conflicts of interest and loyalty, self-regulation, and whistle-blowing. PREREQUISITE: Admission into a bachelor's program; ENGL& 101; and instructor's permission.

**Phlebotomy (PHLEB)**

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

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

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

Students obtain knowledge of blood collection equipment, various types of additives used and special precautions and substances which interfere with testing. Students identify the types of equipment needed to collect blood by venipuncture and/or capillary source, utilizing appropriate devices. Students utilize antiseptics and disinfectants in all procedures as appropriate. Students learn to compare various types of requisitions and practice reading simulated provider's orders. Students verbalize an understanding and respect for pre-analytical errors that may occur during collection. Students demonstrate transport and process of specimens. Students learn special collections such as blood banking, GTT, isolation, and PKU. Students simulate complications of blood draw such as syncope, phobias, and challenged draws. Students process verbal or written orders and give important verbal information or other pertinent concerns about the patient, policy, or practices to appropriate individuals. PREREQUISITE: Instructor's permission.

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

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

**Photography (PHOTO)**

**PHOTO 101 (5)**  
**Beginning Black and White Photography**

Stimulates an interest in and furthers the understanding of the techniques and principles of photography. Introduces students to camera lenses, types of black and white film, proper film exposure, black and white film processing, and basic printmaking. Course requires a 35mm film camera. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

**PHOTO 102 (5)**  
**Intermediate Photography**

For students who have learned the fundamentals of film photography. Concentrates on the more complex aspects of exposure, printmaking skills, lighting and composition while increasing photographic concepts and vision. Students refine the aesthetic and technical aspects of their photography. Course requires a 35mm film camera. PREREQUISITE: PHOTO 101. Satisfies a humanities/fine arts/English requirement for AA degree.

**PHOTO 103 (5)**  
**Advanced Photography**

For the student who has chosen to use photography as a form of creative expression. Students further refine their aesthetic and technical skills while developing a personal style. Students are directed toward personal projects that result in a portfolio of coherent images. Course requires a 35mm film camera. PREREQUISITE: PHOTO 102. Satisfies a humanities/fine arts/English requirement for AA degree.

**PHOTO 111 (5)**  
**Beginning Digital Photography**

Introduces the aesthetic and technical theories and techniques of digital photography. Topics include camera and lens operation, memory cards, file formats, exposure, white balance, composition, lighting, creativity, image editing software and output. Course requires a digital camera. Satisfies an activity or a humanities/fine arts/English requirement for AA degree.

**PHOTO 112 (5)**  
**Intermediate Digital Photography**

Continues the study of aesthetic and technical theories and techniques of digital photography. Topics include intermediate level exposure, composition, lighting, creativity and image editing and correction techniques. Students begin to develop a personal photographic style. Course requires a digital camera. PREREQUISITE: PHOTO 111. Satisfies an activity requirement for AA degree.

**PHOTO 113 (5)**  
**Advanced Digital Photography**

Furthers the study of aesthetic and technical theories and techniques of digital photography. Emphasizes the development of a related body of work demonstrating the student's personal photographic vision. Explores advanced digital camera and image editing software techniques. Course requires a digital camera. PREREQUISITE: PHOTO 112. Satisfies an activity requirement for AA degree.

**PHOTO 197 (1-5)**  
**Independent Study-Photography**

Encourages students to study and develop independently in their major area of advanced photography. Students develop their own objectives, evaluation criteria, and performance standards in conjunction with the appropriate instructor. PREREQUISITE: Instructor's permission.

## 176 Course Descriptions

### Physical Education (P E)

#### **P E 101 (2)** **Physical Fitness Lab**

Focuses on cardiorespiratory fitness. Uses aerobic machines (ADA) in the fitness center. Lecture and lab activities focus on cardiorespiratory endurance, reduction or maintenance of body fat levels, safe and sound activity principles, nutrition, weight management/control, and risk factors for disease. Satisfies a lifetime fitness/wellness requirement for AA degree.

#### **P E 102 (2)** **Jogging**

Focuses on cardiorespiratory fitness through jogging on a walking track, campus trails, and in nearby neighborhoods. Lecture and lab activities focus on cardiorespiratory endurance, reduction or maintenance of body fat levels, safe and sound activity principles, nutrition, weight management/control, and risk factors for disease. Satisfies a lifetime fitness/wellness requirement for AA degree.

#### **P E 103 (3)** **Total Physical Fitness**

Emphasizes total body fitness and focuses on aerobic activity and resistance training. Lecture and lab activities focus on cardiorespiratory endurance, muscular strength and endurance, safe and sound activity principles, nutrition, and risk factors for disease. Satisfies a lifetime fitness/wellness requirement for AA degree.

#### **P E 107 (1)** **Basketball**

Focuses on the fundamentals of basketball as a lifetime leisure activity. Enables the participant to practice and acquire proper techniques and strategies associated with basketball and learn the rules governing the game.

#### **P E 108 (1)** **Tennis**

Focuses on the fundamentals of tennis as a lifetime leisure activity. Enables the participant to practice and acquire proper techniques and strategies associated with tennis and learn the rules governing the game.

#### **P E 109 (3)** **Court Games**

Focuses on the fundamentals of badminton, pickleball, and volleyball as lifetime leisure activities. Enables the participant to practice and acquire proper techniques and strategies associated with badminton, pickleball, and volleyball and learn the rules governing each game.

#### **P E 110 (1)** **Golf**

Focuses on the fundamentals of golf as a lifetime leisure activity. Enables the participant to practice and acquire proper techniques and strategies associated with golf and learn the rules governing the game.

#### **P E 111 (2)** **Aerobic Walking**

Focuses on cardiorespiratory fitness through aerobic walking on a walking track, trails, and nearby neighborhoods surrounding the campus. Lecture and lab activities focus on cardiorespiratory endurance, reduction or maintenance of body fat levels, safe and sound activity principles, nutrition, weight management/control, and risk factors for disease. Satisfies a lifetime fitness/wellness requirement for AA degree.

#### **P E 112 (1)** **Karate**

Focuses on the basics of traditional Shito-Ryu karate. Students receive instruction in proper sport or self-defense etiquette, Japanese terminology, traditional Kata (form), basic self-defense techniques, basic blocks, kicks, and bag workout.

#### **P E 113 (1)** **Group Dynamic Activities**

Focuses on self-confidence and team-building skills through participation in a graduated series of problem-solving and challenge activities. Employs initiative activities, games, and an adventure-based challenge/ropes course. Meets two eight-hour days.

#### **P E 114 (1)** **Cardio Conditioning**

Focuses on cardiorespiratory fitness using treadmills, stationary bicycles, stair climbers, rowing machines, cross-country ski machines, elliptical trainers, arc trainers, and ADA SciFit. Develops general endurance of the respiratory and circulatory systems, reduces or maintains body fat levels, and provides knowledge in safe and sound activity principles.

#### **P E 115 (1)** **Kick-Box Aerobics**

Focuses on cardiorespiratory fitness using skills and techniques of kick-boxing combined with music. Develops general endurance of the respiratory and circulatory systems, reduces or maintains body fat levels and teaches basic martial art skills such as punching, kicking, knee raises, and many combinations.

#### **P E 117 (1)** **Badminton/Pickleball**

Focuses on the fundamentals of badminton and pickleball as lifetime leisure activities. Enables participants to practice and acquire proper techniques and strategies associated with badminton and pickleball and learn the rules governing both games.

#### **P E 118 (1)** **Volleyball**

Focuses on the fundamentals of volleyball as a lifetime leisure activity. Enables the participant to practice and acquire proper techniques and strategies associated with volleyball and learn the rules governing the game.

#### **P E 119 (1)** **Intermediate and Advanced Volleyball**

Focuses on intermediate and advanced volleyball skills and strategies. Students practice and acquire intermediate and advanced techniques and skills associated with volleyball. PREREQUISITE: P E 118 or instructor's permission.

#### **P E 121 (1)** **Badminton**

Focuses on the fundamentals of badminton as a lifetime leisure activity. Enables the participant to practice and acquire proper techniques and strategies associated with badminton and learn the rules governing the game.

#### **P E 122 (1)** **Archery**

Focuses on the fundamentals of archery as a lifetime leisure activity. Enables the participant to practice and acquire proper techniques, strategies, and safety procedures associated with archery and gain knowledge of proper archery etiquette.

#### **P E 124 (1)** **Indoor Soccer**

Focuses on the fundamentals of indoor soccer as a lifetime leisure activity. Enables the participant to practice and acquire proper techniques and strategies associated with soccer and learn the rules governing the game. Played in the main gymnasium.

#### **P E 125 (1)** **Soccer**

Focuses on the fundamentals of soccer as a lifetime leisure activity. Enables the participant to practice and acquire techniques and strategies associated with soccer and learn the rules governing the game.

#### **P E 128 (1)** **Slow Pitch**

Focuses on the fundamentals of slow pitch softball as a lifetime leisure activity. Enables the participant to practice and acquire proper techniques and strategies associated with softball and learn the rules governing the game.

#### **P E 129 (1)** **Pickleball**

Focuses on the fundamentals of pickleball as a lifetime leisure activity. Enables the participant to practice and acquire techniques and strategies associated with pickleball and learn the rules governing the game.

#### **P E 131 (2)** **Weight Training**

Focuses on muscular strength and endurance through resistance training with Nautilus and Cybex machines and free weights. Lecture and lab activities focus on safe and effective resistance training principles, basic functional anatomy, muscular strength and endurance, and basic nutrition. Satisfies a lifetime fitness/wellness requirement for AA degree.



- P E 132 (1)**  
**Strength Conditioning**  
Focuses on muscular strength and endurance through resistance training with Nautilus and Cybex machines and free weights. Emphasizes safe and effective resistance training principles and muscular strength and endurance.
- P E 134 (1)**  
**Tai Chi 1**  
Focuses on Tai Chi as a lifetime leisure activity. Students learn the first half of the complete Chen Style Simplified 24 Form and qigong exercises. Tai Chi practice is suitable for the general population, as well as athletes. Benefits may include stress reduction, increased stamina, and injury prevention through an improvement in joint stability and broader range of motion. Prepares students for Tai Chi 2.
- P E 136 (1)**  
**Yoga 1**  
Focuses on Hatha yoga as a lifetime leisure activity. Emphasizes a progressive system of relaxation, movement, and conditioning techniques and a non-dogmatic approach to yoga focusing on flexibility, stretching and relaxing the body and mind.
- P E 137 (1)**  
**Body Toning**  
Focuses on total body conditioning using hand-held weights, bands, and exercises set to music. Improves cardiorespiratory endurance, body composition, flexibility, and muscular strength and endurance.
- P E 138 (1)**  
**Aerobic Dance**  
Focuses on cardiorespiratory fitness using high and low impact aerobic techniques set to music. Develops general endurance of the respiratory and circulatory systems, reduces or maintains body fat levels, and provides knowledge in safe and sound activity principles.
- P E 139 (1)**  
**Step Aerobics**  
Focuses on cardiorespiratory fitness using bench/step aerobics set to music. Develops general endurance of the respiratory and circulatory systems, reduces or maintains body fat levels, and provides knowledge in safe and sound activity principles.
- P E 140 (1)**  
**Step and Weights**  
Focuses on total body conditioning. Improves cardiorespiratory endurance, body composition, flexibility, and muscular strength and endurance using steps for aerobic activity and dumbbells for resistance training. Resistance training follows aerobic activity.
- P E 141 (1)**  
**Qi Gong**  
Uses Qi Gong to focus on balance, interior training, energy, and body awareness. Instructors lead students through slow movements resulting in improved balance, reduced stress, enhanced breathing, improved joint health and stability, and reduced blood pressure. Qi Gong is suitable for all ages.
- P E 143 (1)**  
**Karate and KickBox Aerobics**  
Focuses on karate and kick-box aerobics using traditional Shito-Ryu karate and kick-boxing combined with music. Students receive instruction in karate etiquette, Japanese terminology, traditional Kata form, basic self-defense, basic blocks, kicks, and bag workouts. Participation in kick-box aerobics follows karate.
- P E 144 (1)**  
**Cross-Training**  
Focuses on enhancing physical performance. Training options include indoor or outdoor running, interval training, core training, and various speed and agility drills. Develops general strength and endurance of the respiratory and circulatory systems, reduces or maintains body fat levels, and provides knowledge in safe and sound fitness training principles.
- P E 147 (1)**  
**Pilates/Yoga**  
Combines Pilates and yoga to focus on 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.
- P E 148 (1)**  
**CORE Training**  
Uses Swiss balls and free weights (dumbbells) to build core strength and functional fitness. Designed to tone the entire body with special emphasis on progressively challenging the spinal extensors and deep abdominal muscles.
- P E 149 (2)**  
**CORE Training for Health**  
Uses Swiss balls and free weights (dumbbells) to build core strength and functional fitness. Core training progressively challenges the spinal extensors and deep abdominal muscles. Lecture and lab activities emphasize health benefits, disease prevention, basic nutrition and anatomy, resistance principles, and safe, effective activity techniques. Satisfies a lifetime fitness/wellness requirement for AA degree.
- P E 150 (1)**  
**Intermediate Basketball**  
Focuses on skills and techniques associated with intermediate basketball. Students practice and acquire intermediate skills and techniques and apply the rules governing the game. PREREQUISITE: P E 107 or instructor's permission.
- P E 158 (1)**  
**Cardio Fusion**  
A high-energy group fitness class using a "boot camp" format which promotes cardiorespiratory fitness and muscular strength and endurance. Applies interval training principles using hand-held weights, resistance bands, therapy balls, and aerobic exercise set to music. Appropriate for all fitness levels.
- P E 160 (3)**  
**Exercise and Nutrition**  
Focuses on cardiorespiratory fitness, resistance training, and nutrition education. Lecture and lab activities include fitness and nutrition, safe and effective principles of activity, healthy food choices, caloric needs and recommendations, micronutrients, macronutrients, phytochemicals, antioxidants, diet and disease, and weight management. Satisfies a lifetime fitness/wellness requirement for AA degree.
- P E 165 (3)**  
**Exercise and Health**  
Focuses on cardiorespiratory fitness, resistance training and disease prevention education. Lecture and lab activities include safe and effective activity principles, benefits of physical activity, and prevention of disease, including cardiovascular disease, cancer, osteoporosis, diabetes, and stroke. Satisfies a lifetime fitness/wellness requirement for AA degree.
- P E 169 (3)**  
**Fitness and Health**  
Provides students with the information necessary to make wise lifestyle choices and adopt proactive behaviors regarding fitness and health. Explores the principles and benefits of safe and effective physical activity, nutrition and eating for optimal health, cardiovascular health, cancer, and risk reduction. Designed for students with documented, limited ability to participate in physical activity and those with military basic training. PREREQUISITE: Instructor's permission. Satisfies a lifetime fitness/wellness requirement for AA degree.
- P E 193 (1-2)**  
**Field Hiking**  
Focuses on field hiking for students concurrently enrolled in Green River's study abroad program. Develops cardiorespiratory endurance, allows students to practice safe hiking techniques, observe proper protocol, and experience various types of hikes. May include urban river and greenway hikes, forested mountain hikes, desert mountain hikes, historic trail hikes, and beach hikes. An initial orientation includes information on basic principles of aerobic activity, heat and sun exposure, 10 essentials for hiking and hiking etiquette. PREREQUISITE: Concurrent enrollment in Green River Study Abroad Program.
- P E 198 (1-3)**  
**Independent Study-Physical Education 1**  
Enables students with a basic knowledge in a discipline to pursue areas of special interest when there is no offering in the regular curriculum. PREREQUISITE: Instructor's permission.
- P E 201 (2)**  
**Advanced Physical Fitness Lab**  
Allows students to continue and advance their health and fitness knowledge and their aerobic activity using treadmills, stationary bicycles, stair climbers, rowing machines, cross-country ski machines, elliptical trainers, arc trainers, and ADA SciFit machine. PREREQUISITE: P E 101 or instructor's permission.

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### P E 202 (2)

#### Physical Fitness Lab

Allows students to continue and advance their health and fitness using treadmills, stationary bicycles, stair climbers, rowing machines, cross-country ski machines, elliptical trainers, arc trainers, and ADA SciFit machine. PREREQUISITE: P E 201 or instructor's permission.

### P E 207 (1)

#### Advanced Basketball

Focuses on the advanced skills of basketball as a lifetime leisure activity, as well as a competitive sport. Enables students to continue to practice proper techniques and strategies associated with basketball, learn the rules governing the game, and focus on advanced technical skills. PREREQUISITE: P E 150 or instructor's permission.

### P E 210 (1)

#### Intermediate Golf

Focuses on golf as a lifetime leisure activity. Students practice and acquire intermediate skills and techniques associated with golf. PREREQUISITE: P E 110 or instructor's permission.

### P E 211 (1)

#### Advanced Tennis

Focuses on the advanced skills of tennis as a lifetime leisure activity, as well as a competitive sport. Enables students to continue to practice proper techniques and strategies associated with tennis, learn the rules governing the game, and focus on advanced technical skills. PREREQUISITE: P E 108 or instructor's permission.

### P E 212 (2)

#### Advanced Jogging

Allows students to continue and advance their health and fitness through jogging. Students jog on the walking track, campus trails, and through nearby neighborhoods. PREREQUISITE: P E 102.

### P E 215 (2)

#### Advanced Aerobic Walking

Allows students to continue to advance their health and fitness through aerobic walking. Students walk on the campus track, campus trails, and through nearby neighborhoods. PREREQUISITE: P E 111.

### P E 216 (1)

#### Advanced Karate

Focuses on advanced techniques of traditional Shito-Ryu karate, traditional Kata (form) and other techniques. Students receive instruction in competition sport techniques, rules, and sparring. Japanese terminology, self-defense and basic techniques, or previous martial arts experience required.

### P E 224 (1)

#### Advanced Soccer

Focuses on the fundamentals of soccer as a lifetime leisure activity, as well as a competitive sport. Enables students to continue to practice proper techniques and strategies associated with soccer, learn the rules governing the game, and focus on advanced technical skills. PREREQUISITE: Instructor's permission.

### P E 231 (2)

#### Advanced Weight Training

Allows students to continue and advance their health and fitness knowledge and their muscular strength and endurance through resistance training with Nautilus and Cybex machines and free weights. PREREQUISITE: P E 131 or instructor's permission.

### P E 234 (1)

#### Tai Chi 2

Focuses on Tai Chi as a lifetime leisure activity. Students learn the second half of the complete Chen Style Simplified 24 Form and qigong exercises. Tai Chi practice is suitable for the general population as well as athletes. Benefits may include stress reduction, increased stamina, and injury prevention through an improvement in joint stability and broader range of motion. PREREQUISITE: P E 134.

### P E 236 (1)

#### Yoga 2

Focuses on Hatha yoga as a lifetime leisure activity. Emphasizes a progressively advanced system of relaxation, movement, and conditioning techniques and a non-dogmatic approach to yoga focusing on flexibility, stretching, and relaxing body and mind. Prior yoga experience required.

### P E 237 (1)

#### Advanced Body Toning

Focuses on use of weights, benches and bands set to music. Allows students to continue to develop muscular strength and endurance, enhance cardio respiratory endurance, reduce or maintain body fat levels, and gain knowledge in safe and effective activity principles. PREREQUISITE: P E 137.

### P E 248 (1)

#### Advanced Core Training

Focuses on utilizing Swiss balls and free weights (dumbbells) to build core strength and functional fitness. Allows students to continue to advance their core fitness by toning the entire body with special emphasis on progressively challenging the spinal extensors and deep abdominal muscles. PREREQUISITE: P E 148.

### P E 251 (2)

#### Advanced Sport Conditioning

Uses aerobic activity, anaerobic activity, and weight training. Allows students to continue training and gain information appropriate for sport-specific conditioning. PREREQUISITE: P E 151.

### P E 253 (3)

#### Advanced Total Physical Fitness

Emphasizes total body fitness focusing on aerobic activity and resistance training. Allows students to continue and improve their total physical fitness. PREREQUISITE: P E 103.

### P E 258 (1)

#### Advanced Cardio Fusion

Focuses on using a boot camp format which promotes cardio respiratory fitness and muscular strength and endurance. Applies interval training principles using hand-held weights, resistance bands, Swiss balls, and aerobic exercise set to music. PREREQUISITE: P E 158.

### P E 298 (1-3)

#### Independent Study-Physical Education 2

Enables students with basic knowledge in a discipline to pursue areas of special interest when there is no offering in the regular curriculum. PREREQUISITE: Instructor's permission.

### Physical Therapy Assistant (PTA)

### PTA 101 (3)

#### Introduction to Physical Therapy

Introduces physical therapy and emphasizes the role and practice of the health practitioner, documentation, ethics, standards of practice and the law. Covers the history and organization of the profession. PREREQUISITE: Instructor's permission.

### PTA 102 (2)

#### Therapeutic Interaction in Health Care

Explores the skills, behaviors, and attitudes necessary for effective patient-practitioner interaction, peer interaction and team participation. PREREQUISITE: Instructor's permission.

### PTA 105 (3)

#### Patient Care Skills

Introduces patient care including medical terminology, vital signs, universal precautions/aseptic technique, body mechanics, assisted ambulation and transfers, patient positioning and draping, passive range of motion, and handling techniques/therapeutic touch. PREREQUISITE: Instructor's permission.

### PTA 110 (5)

#### Principles of Physical Therapy Agents 1

Introduces practice of external compression and bandaging; length, girth, and volumetric measurement; thermotherapy including superficial heat, cryotherapy and paraffin; hydrotherapy; wound care and assessment; massage; and pulmonary hygiene. PREREQUISITE: PTA 105.

### PTA 111 (6)

#### Principles of Physical Therapy Agents 2

Covers the study of and application of physical therapy agents including ultrasound, phonophoresis, iontophoresis, electromagnetic radiation, electrotherapy, biofeedback, cervical and lumbar traction. PREREQUISITE: PTA 110.

### PTA 113 (4)

#### Posture and Movement

Covers the study of the principles and assessment of posture, the mechanics and assessment of typical and atypical gait, and the function of prostheses and orthoses. PREREQUISITE: H SCI 102.

### PTA 114 (2)

#### Tests and Measurements

Covers the study and application of tests and measurements used to gather data about muscle strength, range of motion (ROM) and flexibility. PREREQUISITE: H SCI 102.

**PTA 130 (3)**  
**Survey of Pathophysiology 1**

Introduces disease processes and their effects on rehabilitation. Includes general pathology and descriptions of specific diseases, medications, lab values, and diagnostic tests. PREREQUISITE: H SCI 102.

**PTA 131 (2)**  
**Survey of Pathophysiology 2**

Continues to introduce the principles of pathophysiology as it relates to physical therapy. Includes an overview of disease processes with emphasis on general pathology, etiology, signs, symptoms and treatment protocols for specific patient diagnoses. Course two of a two-part series. PREREQUISITE: PTA 130.

**PTA 151 (1)**  
**Clinical Preparation**

Discusses topics that prepare students for clinical experience including the development of an individualized clinical education plan. PREREQUISITE: PTA 110.

**PTA 199 (1-8)**  
**Independent Study-Physical Therapy**

Students may participate in an in-depth study of specific areas of physical therapy through library research, field investigation, experience in selected activities, or structured clinical activity under instructor guidance. Maximum of eight credits. PREREQUISITE: Instructor's permission.

**PTA 201 (3)**  
**Issues in Health Care**

Study of the relationship of medical, legal and socioeconomic issues to the practice of physical therapy. Discussions of related topics in health care to physical therapist assistant practice, and explore management concerns and fiscal issues in physical therapy.

**PTA 205 (2)**  
**Functional Training**

Covers the study of and application of functional training techniques used in the treatment of physical dysfunction. PREREQUISITE: H SCI 101.

**PTA 210 (5)**  
**Therapeutic Exercise**

Focuses on theory and principles of therapeutic exercise and selected kinesiological and neurologic principles related to therapeutic exercise. PREREQUISITE: PTA 114.

**PTA 211 (6)**  
**Advanced Rehab Procedures**

Focuses on advanced procedures and techniques applied to the treatment of specific impairments primarily of neurologic origin. PREREQUISITE: PTA 210.

**PTA 212 (3)**  
**Acute Care**

Explores physical therapy in acute care including cardiac care, pulmonary care, burn care and geriatrics. PREREQUISITE: PTA 130.

**PTA 213 (5)**  
**Orthopedic Therapy**

Explores orthopedic pathology and common diagnostic procedures. Covers the study of therapeutic exercise, manual techniques, and principles of tissue healing in relationship to orthopedic conditions encountered in the practice of physical therapy. PREREQUISITE: PTA 210.

**PTA 251 (1)**  
**Clinical Supervision 1**

Clinical supervision group discusses and develops skills for effective practice including the patient interview, the identification and reporting of suspected domestic violence, issues in pharmacology, therapeutic interaction and effective problem solving. PREREQUISITE: PTA 151 and concurrent enrollment in PTA 277.

**PTA 252 (1)**  
**Clinical Supervision 2**

Clinical supervision group discusses and develops skills for employment and practice including therapeutic interaction, problem solving, issues of cultural competency, and patient advocacy, as well as relating concepts to concurrent experience in PTA 278. PREREQUISITE: PTA 251 and concurrent enrollment in PTA 278.

**PTA 253 (1)**  
**Clinical Supervision 3**

Provides supervision to students completing full-time clinical affiliations. Students present and suggest solutions for clinical problems encountered, identify appropriate resources for problem resolution, and complete a final program examination in preparation for the licensure examination. PREREQUISITE: PTA 252 and concurrent enrollment in PTA 279 or 280. This is a pass/no-credit course.

**PTA 277 (1)**  
**Clinical Affiliation 1**

Supervised clinical experiences are to familiarize the student with a clinical setting in which physical therapy is practiced. Students are expected to actively participate in patient care, applying knowledge and skills from coursework. PREREQUISITE: Concurrent enrollment in PTA 253. This is a pass/no-credit course.

**PTA 278 (2)**  
**Clinical Affiliation 2**

Supervised clinical experiences are to familiarize the student with a clinical setting in which physical therapy is practiced. Students are expected to actively participate in patient care, applying knowledge and skills from coursework, building on the experience in PTA 277. PREREQUISITE: Concurrent enrollment in PTA 278. This is a pass/no-credit course.

**PTA 279 (6)**  
**Clinical Affiliation 3**

Internship requiring practical performance and application of physical therapy procedures and techniques under supervision in a selected clinical setting that may be inpatient, outpatient or specialized practice. PREREQUISITE: PTA 278 and concurrent enrollment or completion of PTA 253. This is a pass/no-credit course.

**PTA 280 (7)**  
**Clinical Affiliation 4**

A second internship requiring practical performance and application of physical therapy procedures and techniques under supervision in a clinical setting different from PTA 279, in an inpatient, outpatient or specialized practice. PREREQUISITE: PTA 279 and concurrent enrollment in or completion of PTA 253. This is a pass/no-credit course.

**Physics (PHYS)**

**PHYS 107 (5)**  
**Twenty-First Century Physics for Everyone**

Students study the discoveries in modern physics and use it to explore the nature of science. Discusses the building blocks of matter, the fundamental forces of nature, gravity, and quantum theory. Intended for non-science majors, but science students may enjoy the course as well. Non-lab science. Does not transfer as a course which applies to a science major. PREREQUISITE: Eligible for ENGL 101 (or higher) and MATH 097 (or higher). Satisfies a natural science requirement for AA degree.

**PHYS& 110 (5)**  
**Physics Non-Science Majors with Lab**

For the student with no previous experience in physics or other physical science courses and even an apprehension toward science and math. Topics such as light, sound, electricity, and motion, are used to develop underlying principles which describe some of our physical universe. Stresses conceptual reasoning while mathematics is limited to arithmetic reasoning. Uses a hands-on approach to more easily gain insight to the concepts being studied. PREREQUISITE: Eligible for ENGL& 101. Satisfies a lab or natural science requirement for AA degree.

**PHYS& 114 (5)**  
**General Physics I with Lab**

For students in technical and transfer programs. Course goals are to further develop an understanding of basic concepts of physics and analytical and problem-solving skills. Laboratory is an integral component of the course. Covers the ideas of motion, forces, momentum and energy from within the framework of Newton's Laws. No credits given to students who have completed PHYS 154. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in MATH 097 or 116T; or 1-1/2 years of high school algebra. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 110.

**PHYS& 115 (5)**  
**General Physics II with Lab**

Continues the goals of PHYS& 114. Course is based on concepts involving thermal properties of matter, and electricity and magnetism. Teaches the properties of fluids as time permits. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 114 and in MATH 097, or 117T, or 1-1/2 years of high school algebra. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 111.

## 180 Course Descriptions

### PHYS& 116 (5)

#### General Physics III with Lab

Continues the goals of PHYS& 115. Explores the concepts associated with wave phenomena and atomic physics. Uses sound, light (including lasers) and mechanical vibrations as examples of waves. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 115 and MATH 097, 117T or 1-1/2 years of high school Algebra. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 112.

### PHYS 154 (5)

#### Physics for the Life Sciences 1

For students in college transfer programs. Course goals are to further develop an understanding of basic concepts of physics and analytical and problem-solving skills with applications to biological systems. Laboratory is an integral component of the course. Covers the ideas of motion, forces, momentum and energy from within the framework of Newton's Laws. No credit given to students who have completed PHYS& 114. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in MATH 097 or MATH 116T or 1-1/2 years of high school Algebra. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 150.

### PHYS 155 (5)

#### Physics for the Life Sciences 2

For students in college transfer programs, especially those interested in biological or medical sciences. Course develops an understanding of the basic concepts of physics and analytical and problem solving skills with applications to biological systems. Laboratory is an integral component of the course. Teaches the principles of energy flow and conservation, along with electricity with biological and medical applications. No credit given to students who have completed PHYS& 115. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 114 or PHYS 154 and in either MATH 097 or 1 1/2 years of high school Algebra. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 151.

### PHYS 156 (5)

#### Physics for the Life Sciences 3

Course develops an understanding of the basic concepts of physics and analytical and problem solving skills with applications to biological systems. Laboratory is an integral component of the course. Teaches the dynamics of oscillations, waves, electromagnetism, and light with biological and medical applications. No credit given to students who have completed PHYS& 116. PREREQUISITE: A grade 2.0 or higher in PHYS& 115 or PHYS 155; eligible for ENGL& 101; and a grade of 2.0 or higher in either MATH 097 or 116T, or 1 1/2 years of high school algebra. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 152.

### PHYS& 221 (5)

#### Engineering Physics I with Lab

Includes a detailed study of the basic laws of physics. Emphasizes the evolution of ideas from experimental observation to mathematical models. Includes a comprehensive investigation of Newtonian particle dynamics. Laboratory is an integral part of the course. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 114 or in a high school physics, or equivalent, and in MATH& 142 or equivalent with concurrent enrollment or completion in MATH& 151. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 201.

### PHYS& 222 (5)

#### Engineering Physics II with Lab

Applications of Newtonian Physics to energy, momentum, and extended bodies, as well as the study of electro-magnetic theory. Course develops ideas from experimental observation to a mathematics model. Laboratory is an integral part of the course. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 221 and MATH& 151 and at least concurrent enrollment in MATH& 152. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 202.

### PHYS& 223 (5)

#### Engineering Physics III with Lab

Study of classical wave properties with applications to mechanical and electrical systems, sound, electromagnetic waves, light, and atomic physics. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 222 and MATH& 152 and at least concurrent enrollment in MATH& 153. Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 203.

### PHYS 225 (3)

#### Modern Physics

Fourth quarter general physics sequence course for science and engineering students. Serves as a terminal course for non-physics majors and gives students a good conceptual background for the study of quantum mechanics. Emphasizes a thorough study of phenomena that cannot be explained with ideas from classical physics. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 222 and MATH& 152 and at least concurrent enrollment in PHYS& 223 and MATH&153. Satisfies a natural science requirement for AA degree.

### PHYS 229 (2)

#### Electric and Magnetic Fields

Introduces the quantitative laws of electricity and magnetism including principles of electromagnets, electric generators, and electromagnetic waves. PREREQUISITE: Eligible for ENGL& 101 and a grade of 2.0 or higher in PHYS& 222 and MATH & 152 and at least concurrent enrollment in MATH& 153 and PHYS& 223. Satisfies a natural science requirement for AA degree. Formerly PHYS 208.

### PHYS 298 (1-5)

#### Independent Study-Physics

Students contract with an instructor to study topics not part of a regular class. Topics must be in physics or related fields. PREREQUISITE: One year of physics and instructor's permission.

## Political Science (POLS)

### POLS& 101 (5)

#### Introduction to Political Science

Students explore and analyze political philosophies, ideologies, the historical development of political thought, democracy, authoritarianism, and major "isms" (liberalism, conservatism, capitalism, socialism, communism, fascism, political-religious fundamentalism, etc.). Students assess how well each ideology has dealt with social, economic, and political problems. Students explore and analyze why people choose any ideology over others. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies social science requirement for AA degree.

### POLS 194 (5)

#### Special Topics—Political Science

An in-depth study of specific topics in political science or direct involvement in a politically-oriented project. May be in a seminar format or be research focused. Students may be involved in selecting projects and research topics. PREREQUISITE: Eligible for ENGL 099 and instructor's permission required for individual researcher projects.

### POLS& 200 (5)

#### Introduction to Law

Introduces the legal system through an examination of several substantive areas that interest both business and non-business students. Covers constitutional law, contracts, torts, product liability, and criminal law. Uses business environment perspectives, but also considers general social context within which these laws have emerged. Discusses structure of American legal system and investigates sources of law for that system. PREREQUISITE: READ 094 with a grade of 2.0 or higher; or eligible for READ 104. Satisfies a social science requirement for AA degree.

### POLS& 202 (5)

#### American Government

Introduces students to the American political system – its origins, institutions, and operations. Students analyze and understand politics, power, and resulting policy. Examines formal and informal institutions of government, conventional and unconventional means of citizen participation, and political outcomes. Explores the strengths and weaknesses of various interpretations of American democracy. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

### POLS& 203 (5)

#### International Relations

Introduces students to major theoretical approaches in the field of international relations. Explores nations and nationalism, the nature of the interstate system, and power. Includes topics such as diplomacy, trade, economic sanctions, increasing technological and economic globalization, international law, international political economy, labor, the environment, and war. PREREQUISITE: Eligible for ENGL&101 or instructor's permission. Satisfies a social science requirement for AA degree.

**POLS& 204 (5)**  
**Comparative Government**

A comparative analysis of politics and types of governing systems around the globe (e.g., democratic, authoritarian, theocratic, parliamentary, presidential). Examines power relationships (e.g., race, ethnicity, religion, sex) and citizen rights. Explores and analyzes the political issues and problems in their international, historical, economic, and cultural contexts. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

**POLS 207 (5)**  
**American Political Participation**

Examines forms of American political participation. Focuses on such activities as elections, social movements, civil disobedience, political violence, as well as political mobilization activities via the Internet. Also examines the causes and effects of nonparticipation. A central goal is to investigate the democratic theories that underpin American politics. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

**POLS 209 (5)**  
**State and Local Government Politics**

Explores and analyzes histories, structures, processes, policies, administration, and politics of state and local governments. Washington State receives close attention. Explores interest groups, lobbying, campaign finance, electoral politics, policy development and implementation, legislatures, executives, judiciary systems, ballot measures, political personalities, and inter-governmental relations. Students engage current political issues. PREREQUISITE: Eligible for ENGL&101 or instructor's permission. Satisfies a social science requirement for AA degree.

**POLS 298 (1-5)**  
**Independent Study–Political Science**

Enables students to individually pursue special interests or opportunities to study in political science under guidance of an instructor. PREREQUISITE: POLS& 101 or 202, or instructor's permission.

**Prior Learning Assessment (PLA)****PLA 099 (1-2)**  
**Independent Study-Prior Learning Assessment**

Assists students who wish to work on a Prior Learning Assessment project. PLA orientation sessions are provided by faculty and support staff. Instruction includes documentation requirements, assessment, transcript rules, transfer information and restrictions. Credits are awarded for demonstrated learning outcomes that are appropriate to a particular course offering. Faculty, as the content specialists, assesses and recognizes prior learning and makes the determination of credit awards. Credit for PLA may be granted only upon the recommendation of faculty who are appropriately qualified and who are on a regular appointment with the college on a continuing basis. Successful PLA coursework will be transcript on a notation basis. This is a pass/no-credit course.

**Psychology (PSYC)****PSYC& 100 (5)**  
**General Psychology**

Provides an overview of the scientific study of behavior and mental processes in humans and animals. Focuses on the presentation of various scientific theories and supporting research that currently guide the understanding of various aspects of human behavior such as learning, sensation, perception, motivation, memory, emotion, personality, development, abnormal behavior, psychotherapy, and group behavior. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

**PSYC& 180 (5)**  
**Human Sexuality**

Explores the physiological, social and psychological aspects of sexuality. Covers the major theoretical constructs and empirical data regarding sexuality. May cover research techniques, sexual anatomy and physiology, sexual response, sexual behavior, orientation, relationships, love, sexual communication, sexual dysfunctions, deviations and treatment. PREREQUISITE: PSYC& 100 or eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

**PSYC& 200 (5)**  
**Lifespan Psychology**

Covers theories and supporting research that explain psychological development from conception through old age. Topics may include physiological development, emotional development, personality and social development, cognitive development, and aging and death. PREREQUISITE: PSYC& 100 and eligible for ENGL& 101; or instructor's permission. Satisfies a social science requirement for AA degree.

**PSYC 201 (5)**  
**Personality**

Presents an overview of various approaches to personality and their implications for healthy psychological adjustment to the demands of living. Approaches may include biological, psychodynamic, trait, behavioral, humanistic and cognitive perspectives on personality. Presents core concepts used by each perspective, as well as the assessment techniques generated by and used by that perspective. PREREQUISITE: PSYC& 100 and eligible for ENGL& 101; or instructor's permission. Satisfies a social science requirement for AA degree.

**PSYC 209 (5)**  
**Fundamental of Psychological Research**

Introduces psychological research. Topics include interpretation of research, research problems and design, scientific writing, ethics, and literature review techniques. PREREQUISITE: PSYC& 100 and eligible for ENGL& 101; or instructor's permission. Satisfies a social science requirement for AA degree.

**PSYC& 220 (5)**  
**Abnormal Psychology**

Covers the diagnosis, causes, and treatment of abnormal behavior. Topics may include defining abnormality, the history of abnormality, and differing theoretical models used to explain the cause of abnormality and the supporting research. Reviews disorders such as depression, anxiety, schizophrenia, anorexia nervosa, and multiple personality disorder. PREREQUISITE: PSYC& 100 and eligible for ENGL& 101; or instructor's permission. Satisfies a social science requirement for AA degree.

**PSYC 225 (5)**  
**Fundamentals of Physiological Psychology**

Introduces the physiological psychology and the neural mechanisms of behavior. May cover how neurons and neurotransmitters function, the anatomical overview of the nervous system, how sensory systems and motor systems function, the neural mechanisms of motivated behavior, emotion, learning, memory, and sleep and psychological disorders. PREREQUISITE: PSYC& 100 and eligible for ENGL& 101; or instructor's permission. Satisfies a social science requirement for AA degree.

**PSYC 240 (5)**  
**Social Psychology**

Covers theories and supporting research that explore the area of social psychology. Topics may include the social self, stereotypes, prejudice and discrimination, attitudes, persuasion, group influence, conformity and obedience, attraction and close relationships, aggression and helping others. PREREQUISITE: PSYC& 100. Satisfies a social science requirement for AA degree.

**PSYC 298 (1-5)**  
**Independent Study-Psychology 1**

Allows students to pursue a special field of interest in psychology under the guidance of an instructor. PREREQUISITE: PSYC& 100 and instructor's permission.

**PSYC 299 (1-5)**  
**Independent Study-Psychology 2**

Continues project started in PSYC 298, or a second project. PREREQUISITE: PSYC 298 and instructor's permission.

**Reading (READ)****READ 083.1 (1)**  
**Reading Proficiency 1**

A web-based reading program that addresses the key components of reading at adequate rates with good comprehension. Provides intensive practice in improving visual and perceptual skills, comprehension skills, and vocabulary acquisition. Students' progress is continually monitored and adjusted. Recommended for students who are preparing for career and program placement or admittance tests. This is a pass/no-credit course.

## 182 Course Descriptions

### **READ 084 (5)** **Reading Essentials**

For students who wish to develop a solid foundation of basic reading skills as preparation for college and workplace reading needs. Class builds reading proficiency, reading fluency and vocabulary. In addition to classroom instruction, class utilizes an internet reading program and web site as a means of communication. PREREQUISITE: Appropriate placement score or instructor's permission.

### **READ 094 (5)** **Reading Improvement**

For students who wish to develop their reading skills for college, work, or pleasure. Emphasizes the identification of main ideas, relevant details, and organizational patterns to improve reading comprehension. Also addresses vocabulary development and reading rate. PREREQUISITE: Completion of READ 084 with a grade of 2.0 or higher; or appropriate placement score; or instructor's permission.

### **READ 104 (5)** **Reading Mastery**

Emphasizes the development of the critical reading and thinking skills (analysis, synthesis, and evaluation) needed for courses in the humanities, social sciences, and sciences. Presents active reading strategies and study reading techniques. PREREQUISITE: Completion of READ 094 with a grade of 2.0 or higher; or appropriate placement score; or instructor's permission.

## **Real Estate (R EST)**

### **R EST 101 (3)** **Real Estate Fundamentals 1**

This 33-hour course meets the new state requirements for those who intend to take the Real Estate License Exam. Topics include nature of real property, estates in land, land acquisition, ownership and transfer, contract law agency and brokerage, law and ethics, real estate finance, appraisal, economics, property management, the government and the real estate industry, taxation, real estate ownership operation, real estate math, Washington law, and the real estate industry.

### **R EST 102 (3)** **Real Estate Fundamentals 2**

In conjunction with R EST 101, this class meets the state requirement for individuals seeking a real estate salesperson's license to complete a 60-clock hour course in real estate fundamentals. Topics include: Real Estate as a Career, The Selling Process, Listing Agreements and Procedures, Agency Law and Brokerage Relationships, Real Estate License Law, and Fair Housing Issues and Consumer Protection. Eligible for 30 clock-hour credits.

### **R EST 110 (2)** **Varies**

A 1-2 credit format (7.5 to 15 clock hours per course). Can be selected to qualify for the 30-clock hour Real Estate Continuing and Community Education requirement, as approved by the Washington state Department of Licensing.

### **R EST 120 (3)** **Real Estate Law**

A practical study of Washington Real Estate Law, emphasizing the more complex aspects of ownership, use and transferability of real estate as encountered by brokers and others who deal with real property. Covers Washington Real Estate Agency Law, Lending Law, contracts, titles, deeds, leases, liens, covenants, conditions, restrictions, easements, estates, probate, and landlord-tenant relationships. Includes a review of significant Washington cases.

### **R EST 130 (3)** **Residential Appraisal**

Focuses on single family residences, small rental units (1-4), raw land for single family residential units and rental units (1-4). Covers the theories, functions and purposes of appraisal. Uses principles and techniques to determine the value of real property. Covers application of cost and market data approaches to residential value for the purpose of purchasing and selling real property.

### **R EST 140 (3)** **Real Estate Sales Practices**

Teaches the why's and how's of real estate sales principles so that students can apply principles of selling as they relate to the real estate salesperson. Includes the methods and procedures of listing, prospecting or preparing earnest money agreements. Also includes advanced real estate sales information.

### **R EST 150 (3)** **Real Estate Finance**

Policies, problems and methods involved in financing and investing in various types of real property. Includes taxation analysis, exchanges, sources of loan funds, types of financing methods, institutional and government policies, and instruments and methods of loan processing.

### **R EST 160 (3)** **Investment/Commercial Appraisal**

Subject properties include residential income (five or more units), mobile home parks, offices, shopping centers, industry and warehouse properties, and raw land and development. Covers approaches to valuation in income, capitalization, replacement and cost.

### **R EST 170 (3)** **Real Estate Property Management**

Important functions in building management, residential property analysis, equipment, rental policies, vacancy and rental surveys, lease provisions, inspection, building codes, tenant relations, operating policies and financial result analysis.

### **R EST 180 (3)** **Office Administration**

Practical administration of real estate brokerage, including all managerial functions with special emphasis on brokerage, budgets, sales management, advertising, sales training, market analysis and data processing.

### **R EST 206 (3)** **Market Data Analysis**

Teaches students to prove adjustments by market abstractions, to use various methods of calculating depreciation and to correctly complete the URAR Single Family Residential Report Form. Approved for 30 clock hours by the Washington state Department of Licensing. Meets requirements for advanced appraising instruction.

### **R EST 207 (3)** **Residential Appraisal Report Writing**

Covers current residential real estate appraisal report formats and forms required by most primary lenders, the relocation industry and the secondary money market. Also includes the U.R.A.R. form, the Condominium form, and the 24 small residential income form.

## **Social Science (S SCI)**

### **S SCI 160 (5)** **Introduction to the Study of Gender**

Introduces students to the social and historical construction of masculinity and femininity, sexuality and the body, reproduction and the family. Considers the theory and practice of feminist and masculinist social movements. Examines gender as informed by race, class, ethnicity and nationality. Exposes students to historical and theoretical models in the study of gender and sexuality. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

### **S SCI 177-179 (1-12)** **Social Science Work Experience 1-3**

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Eligible for ENGL 099 and concurrent enrollment in COOP 171 and instructor's permission.

### **S SCI 194 (1-5)** **Special Topics-Social Science**

Focuses on a variety of current or long-range problems. Provides opportunities for an in-depth discussion of issues with instructors and specialists. May organize media courses.

### **S SCI 211 (5)** **Nuu-Chah-Nulth Indians**

Examines the Nuu-Cha-Nulth peoples of the Northwest Coast, as they are known from historical, ethnographic and informant sources, including field work in conjunction with the Clayogout Sound Summer Program. Cross-listed with AMES 211 and ANTH 211. PREREQUISITE: Eligible for ENGL& 101 and instructor's permission. Satisfies a social science requirement for AA degree.

**Sociology (SOC)**

**SOC& 101 (5)**  
**Introduction to Sociology**

Introduces the scientific study of life in groups. Examines the creation and reinforcement of cultural patterns that influence individuals, groups and society at large. Emphasizes socialization processes, social institutions, small and large group dynamics, social inequalities and social movements. RECOMMEND: Eligible for ENGL& 101. PREREQUISITE: Eligible for ENGL 099 or instructor's permission. Satisfies a social science requirement for AA degree.

**SOC 194 (1-5)**  
**Special Topics-Sociology**

Focuses on one special topic in the current realm of social concern issues. May be repeated when a different topic is presented. Topics may include social movements, such as the Consciousness Movement, the rise of religious cults, violence in the media, aging in America, new social and political power, or youth in transition. PREREQUISITE: Eligible for ENGL 099 or instructor's permission.

**SOC& 201 (5)**  
**Social Problems**

Introduces the study of social problems within cultures, with a primary focus on American society. Examines issues such as social inequality, crime, drug abuse, family violence, population growth and environmental destruction using sociological theories, reasons and possible remedies. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

**SOC 202 (5)**  
**Sociology of Food**

Using a sociological lens, the relationship between food and humans is examined, focusing on how food production and consumption are informed by social class, ethnicity, gender, globalization, social movements and technological changes. Humans give symbolic meaning to food as more than a source of nourishment; food rituals are embedded in social institutions, cultural patterns and social interactions between individuals which reflect changing cultural values and practices. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

**SOC 205 (5)**  
**Sociology of Disability**

A sociological study of disability includes the implications of disability on identity formation and social policies. Examination also includes the intersectionality of disability with other categories such as race, gender, sexual orientation and social class. Investigates the Disability Rights Movement, from the enactment of the American with Disabilities Act to the development of the model of Universal Design. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

**SOC 215 (5)**  
**Survey of Criminology**

Covers the history and theory of what causes or contributes to crime, covering the major issues that confront the criminal justice system and studying the social organizations that create and enforce definitions of deviance and crime. Course is interdisciplinary in nature, working primarily from a sociological perspective, but including theories from biology, genetics, anthropology and psychology. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

**SOC 220 (5)**  
**Sex and Gender in Society**

Explores gender as a major organizing principle in culture, and examines how gender influences sexuality, personal relationships and social institutions, including media, family, work, school and politics. Examines similarities and differences between the sexes primarily from a sociological perspective, but also through historical, psychosociological, biological and anthropological theories that contribute to understanding gender as a social force. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science and the diversity course requirements for AA degree.

**SOC 230 (5)**  
**Sociology of Death and Dying**

Examines the connection between culture and the process of death, dying and bereavement. Focuses on how social class, family structures, ethnicity, religion and technological changes influence American customs, taboos, and rituals around death by applying sociological theories. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

**SOC 240 (5)**  
**Sociology of the Family**

Examines the social institution of family from historical and multi-cultural perspectives emphasizing the use of sociological theories. Specific topics include dating rituals, mate selection, parenting, divorce, family violence and work patterns. Focuses on how families are influenced by larger social forces, such as religion, social class and social policies. PREREQUISITE: Eligible for ENGL&101 or instructor's permission. Satisfies a social science requirement for AA degree.

**SOC 245 (5)**  
**Juvenile Delinquency**

Examines the history of the juvenile justice system, environmental influences on delinquency, theories of delinquency, controlling delinquency and current trends in juvenile crime. Examines the rationale behind the juvenile system, as well as the juvenile courts. Analyzes the various theories of crime causation including sociological, psychological and criminological theories. PREREQUISITE: Eligible for ENGL&101 or instructor's permission. Satisfies a social science requirement for AA degree.

**SOC 260 (5)**  
**Crime and Justice**

Sociological study of the extent and causes of crime and a survey of the criminal justice system including the police, the courts and corrections. Gives attention to juvenile delinquency, gun control, capital punishment and violence against women. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree.

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

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

**SOC 298 (1-5)**  
**Independent Study-Sociology**

Allows students to individually pursue special interests in sociology under the guidance of an instructor. PREREQUISITE: SOC& 101, at least one 200-level sociology course, and eligible for ENGL& 101, or instructor's permission.

**Spanish (SPAN)**

**SPAN 090 (3)**  
**Spanish for the Traveler 1**

A practical class for beginners (tourists, business travelers, and those learning for their own enjoyment) with very little or no background in the language. Covers basic vocabulary, conversation, pronunciation, and frequently used expressions. Includes practice in speaking and understanding the language of everyday life with some information on the area's culture, customs, and money system. RESTRICTED: Not open to students with more than one year of high school Spanish or one quarter of college transfer level Spanish.

**SPAN 110 (4)**  
**Spanish Oral Practice**

Oral discussion of current events, cultural topics and subjects of particular interest to the class. Revision of basic grammar and relevant vocabulary that allows proper oral communication in Spanish. PREREQUISITE: Eligible for ENGL 099 and SPAN& 122, or two years of high school Spanish or equivalent or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.

**SPAN 111 (5)**  
**Spanish for Health Care Workers**

Focuses on developing basic communication skills primarily for health care workers or for anyone desiring a background in the language of health care in Spanish. Students learn introductory vocabulary and grammatical structures in Spanish related to the language of health care. PREREQUISITE: Eligible for ENGL 099.

## 184 Course Descriptions

### **SPAN 112 (5)** **Spanish for Health Care Workers**

A continuation of SPAN 111. Focuses on further developing communication skills primarily for health care workers or for anyone desiring a background in the language of medicine in Spanish. Students expand introductory vocabulary and grammatical structures in Spanish related to the language health care. PREREQUISITE: Eligible for ENGL 099 and SPAN 111 with a grade of 2.0 or higher.

### **SPAN 115 (1)** **Hispanic Activities**

Allows students to learn about the multiple contributions of the Hispanic world to the global community. Students are exposed to different elements of Hispanic culture, including music, dancing, and festivals, as well as basic Hispanic history. PREREQUISITE: Eligible for ENGL 099. Satisfies an activity requirement for AA degree.

### **SPAN& 121 (5)** **Spanish I**

Begins the systematic study of Spanish emphasizing speaking and listening, basic grammar, vocabulary, reading, writing, and conversation practice. Course requires practice with lab materials. PREREQUISITE: No previous background in Spanish, or no more than one year of high school Spanish, or no more than two years of high school Spanish with a "C" average or less. Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

### **SPAN& 122 (5)** **Spanish II**

Systematic study of Spanish using the four basic skills of listening, speaking, reading and writing. Course requires practice with lab materials. PREREQUISITE: A grade of 2.0 or higher in SPAN& 121 or equivalent with instructor permission. The equivalent of SPAN& 121 is one year in high school with a grade of B or higher. Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

### **SPAN& 123 (5)** **Spanish III**

Completion of basic grammar system, vocabulary, reading, writing, and conversation. Course requires practice with lab materials. Fulfills the University of Washington College of Arts and Sciences graduation requirement. PREREQUISITE: A grade of 2.0 or higher in SPAN& 122 or equivalent with instructor permission. The equivalent of SPAN& 122 is two years in high school with a grade of B or higher. Eligible for ENGL 099. Satisfies a humanities/fine arts/English requirement for AA degree.

### **SPAN 194 (3-5)** **Special Studies-Spanish**

A field course experience in which students improve their conversational Spanish within a cultural framework. Content varies each time the course is offered. Includes actual practice in the language. PREREQUISITE: SPAN& 121 and &122 or instructor's permission. Eligible for ENGL 099.

### **SPAN& 221 (5)** **Spanish IV**

Systematic review of Spanish grammar aimed at communicative competency at an intermediate level. Intensive practice in listening, speaking, reading, and writing with special emphasis on reading and reacting to texts that explore the diversity of the Spanish speaking world, as well as the global and local implications of gender, racial and cultural interdependence. Includes oral practice through discussion of above-mentioned materials. PREREQUISITE: Eligible for ENGL 099 and a grade of 2.0 or higher in SPAN& 123 or equivalent with instructor permission. The equivalent of SPAN& 123 is three years in high school with a grade of B or higher. Satisfies a humanities/fine arts/English and the diversity course requirements for AA degree.

### **SPAN& 222 (5)** **Spanish V**

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

### **SPAN& 223 (5)** **Spanish VI**

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

### **SPAN 299 (1-5)** **Independent Study-Spanish**

Encourages students to study independently in a field of their special interest in Spanish. Students meet on a tutorial basis with their instructor. Course content is decided in conferences between student and instructor. PREREQUISITE: Eligible for ENGL 099 and a grade of 2.0 or higher in SPAN& 222 or equivalent with instructor's permission.

## **Study Skills (ST SK)**

### **ST SK 101 (3)** **Study Skills for the Social Sciences**

For students concurrently enrolled in a social science class. Covers learning strategies and techniques that lead to successful completion of a social science course. Emphasizes effective textbook reading, lecture note taking, time management, test preparation, and memory improvement. May cover participation in internet-based discussion groups and library research. PREREQUISITE: Eligible for READ 104 or concurrent enrollment in READ 094.

### **ST SK 103 (1)** **Study- Reading Techniques in Science**

Improves study-reading skills related to the sciences. Introduces students to valuable information about study-reading techniques in science and stimulating resources. This is an important skill-building course that can influence college success, but does not fulfill degree requirements. Planned or concurrent enrollment in a science course is recommended. This is a pass/no-credit course.

### **ST SK 105 (1)** **Orientation to College**

Holds the key to a successful experience at Green River. Introduces first year students, though the course is not restricted to them, to valuable information about personal services, unique programs, and stimulating resources offered at Green River. This is a pass/no-credit course.

### **ST SK 106 (2)** **College Survival**

Provides first-time and returning students with specific skills and strategies needed to accomplish their academic goals with greater success. Through discussion, group exercises, and guest speakers, students are introduced to a variety of topics critical to student success: time management, setting priorities, learning styles, campus resources and policies, critical thinking, motivation, and test taking. PREREQUISITE: Eligible for READ 094 or instructor's permission. This is a pass/no-credit course.

### **ST SK 110 (5)** **College Success Strategies**

Emphasizes development of necessary skills for successful completion of college courses in the humanities, social sciences, and sciences. Provides techniques and strategies to improve time management, memory, note-taking, textbook reading techniques, outlining, mapping, learning styles, use of library, test preparation, and test taking. Focuses on how individuals become independent learners and develop critical thinking skills. PREREQUISITE: Eligible for READ 104, or concurrent enrollment in READ 094.

### **ST SK 199 (1-3)** **Independent Study-Study Skills**

Encourages students to work on a specific study technique. The technique must increase the student's understanding and application of study technique to academic work. PREREQUISITE: Instructor's permission.



**Technology (TECH)****TECH 100 (2)**  
**Careers for the New Millennium**

Lectures, discussions and outside activities investigating career development opportunities assist adult learners in making transitions into professional and technical careers and college life. Scheduled in a modular format. Satisfies an activity requirement for AA degree. This is a pass/no-credit course.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Introduces Level 5 students to the basic principles of the mechanics of writing and strategies to develop and organize complex ideas in writing. Students practice critical reading skills and demonstrate understanding of a variety of texts, including fiction, nonfiction, and informational through the writing process. Students who successfully complete this course earn 21 high school credits in English.

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

Introduces Level 6 students to the basic principles of the mechanics of writing and strategies to develop and organize complex ideas in writing. Students practice critical reading skills and demonstrate understanding of a variety of texts, including fiction, nonfiction, and informational through the writing process. Students who successfully complete this course earn 21 high school credits in English.

**TS 082 (5-10)**  
**Language Arts in Physical Science Level 2**

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

**TS 083 (5-10)**  
**Language Arts in Physical Science Level 3**

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

**TS 084 (5-10)**  
**Language Arts in Physical Science Level 4**

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

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

Introduces Level 5 students to the basic principles of physical science through reading and writing. Also introduces students to the history and nature of science. Students explore the fundamental concepts of physics, chemistry, astronomy and earth science. Students who successfully complete this course earn 21+ high school credit in science.

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

Introduces Level 6 students to the basic principles of physical science through reading and writing. Also introduces students to the history and nature of science. Students explore the fundamental concepts of physics, chemistry, astronomy and earth science. Students who successfully complete this course earn 21+ high school credit in science.

**TS 101 (2)**  
**College Link**

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

## 186 Course Descriptions

### Wastewater Technology (WWT)

#### WWT 172 (1) Industrial Wastewater Instrumentation

Covers basic concepts and industry practices regarding wastewater treatment instrumentation measuring systems and their associated control systems.

#### WWT 174 (1) Industrial Wastewater Regulations

Covers water pollution control statutes and regulations that concern industrial facilities which discharge directly to the environment or to publicly-owned wastewater collection systems and treatment plants.

#### WWT 175 (2) Industrial Wastewater Treatment Processes 1

Focuses on the operation of industrial wastewater pretreatment facilities and industrial wastewater treatment facilities discharging directly to the environment (with NPDES permits). Introduces industrial wastewater variables, components, effects and generation. Covers treatment processes including preliminary treatment (flow equalization, screening, pH adjustment), and physical treatment (air stripping, carbon absorption).

#### WWT 176 (2) Industrial Wastewater Treatment Processes 2

A continuation of WWT 175. Covers treatment processes including physical-chemical (coagulation, flocculation and sedimentation), filtration, and treatment of metal waste streams.

#### WWT 177 (1-12) Wastewater Cooperative Education

Allows student to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

#### WWT 180 (3) Wastewater Collection

Topics include composition and sources of wastewater; purposes of wastewater collection systems; wastewater collection system components including preliminary treatment, piping systems and lift stations; wastewater collection system operation and maintenance including inspecting, testing, and cleaning; normal and abnormal operating conditions.

#### WWT 185 (3) Municipal Wastewater Treatment 1

Gives an overview of the purpose, operation and maintenance of municipal wastewater treatment plant processes including preliminary treatment, primary treatment, trickling filters and rotating biological contractors. PREREQUISITE: MATH 072, 097 or eligible for MATH 097; ENGL 081, 099, 109 or ENGL& 101 or eligible for ENGL 099.

#### WWT 186 (3) Municipal Wastewater Treatment 2

Gives an overview of the purpose, operation and maintenance of municipal wastewater treatment activated sludge and stabilization pond processes. Covers solids processes including thickening, anaerobic digestion, aerobic digestion and dewatering. PREREQUISITE: WWT 185

#### WWT 188 (2) Wastewater Laboratory

Covers theory, performance, and interpretation of basic wastewater laboratory procedures used to assess water quality. Topics include safety, total solids, dissolved oxygen, biochemical oxygen demand, pH, fecal coliform, and chlorine residual.

#### WWT 199 (1-5) Independent Study-Wastewater Technology

Allows students to investigate an area of interest in the wastewater technology field with the guidance of an instructor, using a learning contract. PREREQUISITE: Instructor's permission.

### Water Supply Technology (WST)

#### WST 177 (1-12) Wastewater Cooperative Education

Allows students to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Instructor's permission. This is a pass/no-credit course.

#### WST 180 (3) Water Distribution

Covers components of a water distribution system, operation and maintenance procedures for a water distribution system and normal and abnormal conditions in water distribution systems. PREREQUISITE: ENGL 081, 099, 109, ENGL &101 or eligible for ENGL 099.

#### WST 183 (1) Water Sources

Provides basic information related to water sources used for public drinking water systems. Includes water supply hydrology, groundwater sources, surface water sources and water source protection. PREREQUISITE: ENGL 081, 099, 109, ENGL&101 or eligible for ENGL 099.

#### WST 184 (2) Water Regulations

Provides an overview of federal and state drinking water regulations including a brief history and the structure of the Safe Drinking Water Act. Reviews current drinking water regulations. Identifies water quality parameters addressed in drinking water regulations. Covers operator certification. PREREQUISITE: ENGL 081, 099, 109, ENGL&101 or eligible for ENGL 099.

#### WST 185 (3) Water Treatment 1

Covers public drinking water treatment processes, theory, operation and maintenance. Processes include preliminary treatment, coagulation, flocculation, sedimentation and filtration. PREREQUISITE: MATH 072, 097 or eligible for MATH 097, and ENGL 081, 099, 109, ENGL& 101, or eligible for ENGL 099.

#### WST 186 (3) Water Treatment 2

A continuation of WST 185. Processes include fluoridation, control of corrosion and scaling, iron and manganese control, lime softening, ion exchange processes, absorption, aeration, and membrane processes. PREREQUISITE: WST 185.

#### WST 188 (2) Water Laboratory

Uses theory, performance, and interpretation of basic water laboratory procedures to assess water quality. Topics include safety, sampling, alkalinity, hardness, pH, coliform, jar testing, turbidity, chlorine residual, and advanced water testing procedures.

#### WST 199 (1-5) Independent Study-Water Supply Technology

Allows students to investigate an area of interest in the water supply technology field with the guidance of an instructor using a learning contract. PREREQUISITE: Instructor's permission.

### Water Technology (WTECH)

#### WTECH 181 (3) Water Hydraulics

Examines the general principles of water hydraulics and how they relate to the operation of water distribution systems, wastewater collection systems, and water and wastewater treatment facilities. Topics include mass, density, displacement, flow, velocity, pressure, Bernoulli's theorem, friction loss, minor head loss, and flow measurement. PREREQUISITE: MATH 072, 097 or eligible for MATH 097.

#### WTECH 182 (3) Pumps and Pumping Systems

Examines pumps and pump piping systems used in water and wastewater applications. Emphasizes operational theory, application and basic maintenance of centrifugal pumps. PREREQUISITE: MATH 072, 097 or eligible for MATH 097.

**WTECH 183 (3)**  
**Utility Worker Safety**

Examines safety concerns for water and wastewater utilities including confined space entry, underground utility location, excavation safety, fire safety, electrical safety, hazardous energy control (lock out/tag out), machine guarding, and the chemical hazard communication standard. Personal protection topics includes back safety, safe stairway/ladder use, personal fall protection, blood borne pathogen awareness, respiratory, eye, hand, head, hearing, and foot protection. Reviews regulations and standards relating to these topics.

**WTECH 184 (3)**  
**Disinfection and Chemical Feed Systems**

Covers principles of disinfection and disinfection alternatives. Discusses operation and maintenance of chemical feed systems used in water and wastewater applications including gas chlorinators and solution feed systems. Covers safety procedures for handling chlorine. PREREQUISITE: MATH 072, 097 or eligible for MATH 097.

**WTECH 185 (3)**  
**Water and Wastewater Applied Problems**

Students perform calculations related to water and wastewater laboratory, effectiveness of each major stage of water and wastewater treatment operation, pump capacities, pump rates, process loading rates, flow rates and chemical dosage rates. PREREQUISITE: MATH 072, 097 or eligible for MATH 097.

**WTECH 187 (3)**  
**Drawings and Manuals**

Includes interpretation of maps, drawings, and operation and maintenance manuals as these activities relate to the water and wastewater technology field.

**WTECH 188 (3)**  
**Water and Wastewater Electrical**

Electrical fundamentals for water and wastewater applications including atomic theory, energy sources, circuit basics, electromagnetism, inductance, capacitance, power systems, control system component reading, electrical diagrams, electrical measurements, normal operations, and troubleshooting.

**WTECH 191 (3)**  
**Pre-Employment Seminar**

Covers job search and preparation for water and wastewater careers. Includes resume, cover letter, and application preparation, as well as interview techniques and practice. Also includes identification of potential employers. Students gain workplace skills including internal customer service and diverse workforce awareness.

**Welding (WELD)****WELD 103 (3)**  
**Special Welding**

Any welding process available at Green River designed to suit the needs of the student who registers for either a specified number of hours, or enters on a space-available basis after the class has begun. Credits completed in WELD 103 are applied to WELD 141, 142, 143 or 194. (Special Note: Veterans may not exceed a total of 16 credits in WELD 103. Eight credits must apply to other welding courses as indicated if they are receiving educational benefits from the Veterans Administration.) PREREQUISITE: Instructor's permission.

**WELD 107 (3)**  
**Basic Blueprint Reading**

A related subject for welding students to help prepare them for the demands of the industry. Covers alphabet of lines, orthographic and isometric drawings, shop prints and details of how to read them, standard measuring devices and their uses, structural materials (how they intersect and tie together) and welding symbols and their applications.

**WELD 141 (1-13)**  
**Basic Arc Weld and Flame Cutting**

Prepares students as trade welders or, with proper selection of classes, to receive an AAS degree as Welding Technicians using one or more welding processes. Students learn arc welding of low-carbon steel in all positions, electrode clarification, and manual and machine flame cutting of low carbon steels using oxy-acetylene process. PREREQUISITE: Instructor's permission.

**WELD 142 (1-13)**  
**Intermediate Welding**

For students with previous welding experience or WELD 141. Students continue arc welding of low-carbon steel in all positions in preparation for the American Welding Society (AWS) or Washington Association of Building Officials (WABO) test. Students learn theory and application of stick electrode and carbon electrode for cutting and gouging. PREREQUISITE: Instructor's permission.

**WELD 143 (1-13)**  
**Advanced Arc Welding**

Introduces gas tungsten arc, gas metallic arc, and flux cored arc welding processes for those students proficient at manual arc and oxy-acetylene welding. Students gain experience in all of the general welding processes used by local industry. PREREQUISITE: Instructor's permission.

**WELD 177-179 (1-12)**  
**Welding Work Experience 1-3**

Allows student to work full- or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.

**WELD 194 (1-13)**  
**Special Welding Project 1**

Suits the student's personal needs. Course focuses beyond basic techniques in GTAW, GMAW, FCAW, SMAW, in pipe, plate, aluminum, titanium, and magnesium welding. PREREQUISITE: Instructor's permission.

**WELD 195 (1-13)**  
**Special Welding Project 2**

Provides students with the manual skills and technical knowledge that is required by industry to pass various specialized welding tests, and to meet industry certification standards. Students increase their level of proficiency in each welding process. PREREQUISITE: Instructor's permission.

**WELD 196 (1-13)**  
**Special Welding Project 3**

Further provides the students with the manual skills and technical knowledge that is required by the industry to pass various specialized welding tests and to meet industry certification standards. Students increase their level of proficiency in each welding process. PREREQUISITE: Instructor's permission.

## FACULTY AND ADMINISTRATION

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## GLOSSARY

**Academic** – Pertaining to a liberal arts program of study, as opposed to a career or technical program. Term used with degree, program, or course.

**Academic calendar** – A two-year calendar indicating quarter start and end dates, holidays to be observed by Green River campuses, and other non-class days.

**Academic certificate** – Awarded for recognition of accomplishment in an academic program.

**Academic standards** – College policy that requires students to maintain a minimum grade point average of 2.0.

**Advisor** – The faculty member, administrator, or Career and Advising Center staff person who helps you in the advising process.

**Application** – The process of applying for admission to the college or to a specific program of study; also the form you fill out to apply.

**Articulation agreement** – An agreement between the college and certain high schools or other colleges by which specific courses taken at one institution are allowed for automatic credit at the other institution.

**Associate Development (AD)** – A degree designed for students to plan their educational program with self-direction and development without specific requirements in subject areas.

**Associate in Applied Arts (AAA)** – A degree designed for students in career/technical programs, generally in business and business-related fields.

**Associate in Applied Science (AAS)** – A degree designed for students in career/technical programs, generally in health sciences, technical, and trades subjects.

**Associate in Applied Science-Transfer (AAS-T)** – A degree for technical courses required for job preparation and includes college-level general education requirements.

**Associate in Arts (AA-DTA)** – Liberal arts degree fulfilling the general requirements taken by college freshmen and sophomores. Students must complete 90 quarter credits in courses numbered 100 or above and meet specific distribution requirements.

**Associate in Business (AB-DTA/MRP)** – A degree for students pursuing a career in the field of business.

**Associate in Elementary Education (AEE-DTA)** – A degree intended for all future elementary teachers.

**Associate in Fine Arts (Art) (AFA-DTA)** – A degree for students pursuing a degree in fine arts specializing in art or photography.

**Associate in Math Education (AM-DTA/MRP)** – A degree for students who plan to transfer to a four-year college or university at a junior level to a Bachelors of Science in Nursing Program.

**Associate in Pre-Nursing (A-PreN-DTA/MRP)** – A degree for students who plan to transfer to a four-year college or university at a junior level to a Bachelors of Science in Nursing.

**Associate in Science-Transfer (Option 1) (AS-Opt 1)** – A degree for students interested in Biology, Environmental Science, Chemistry, Geology, and Earth Science.

**Associate in Science-Transfer (Option 2) (AS-Opt 2)** – A degree for students interested in Engineering, Engineering Technology, Computer Science, Physics, and Atmospheric Science.

**Audit** – Taking a class for information only and not for credit or a grade.

**Bachelor's or Baccalaureate** – A degree awarded by four-year colleges and universities to students who have completed a specified course of study.

**Bachelor of Applied Science** – A degree for students who already hold a technical degree. This degree is built upon technical courses required for job placement and career promotion.

**Career/technical** – A program of study intended to prepare you for employment in a certain field rather than for transfer to a four-year college or university. Used to describe a degree, program, or course. Also referred to as vocational.

**Certificate of Completion (Cert)** – Awarded in some career/technical programs. These certificates usually do not include courses outside the major subject.

**Certificate of Proficiency (Cert-P)** – Awarded for the successful completion of a specific short-term program of study in a career/technical field where course work is 44 credits or less, and generally does not include "Related Instruction" requirements.

**Common Course Number** – Includes commonly shared courses among Washington community and technical colleges with the same course number and title, designated by the "&" symbol.

**Compass** – A computerized assessment for course placement of enrolling students that identifies a student's skill levels in reading, writing and math. This is an assessment of skills, not a test that can be passed or failed. One's "score" on each section of the assessment (reading, writing, and math) simply indicates the appropriate starting point for each student.

**Concurrent enrollment** – Enrollment in two or more linked classes.

**Continuing and Community Education** – Courses, seminars or workshops, usually non-credit, that do not apply to degrees but are taken for personal enrichment, professional development, or general knowledge.

**Co-op fee** – An extra charge, in addition to tuition, required for certain courses to cover lab supplies, equipment, computer use, etc.

**Course** – A single subject of study taken for one quarter or other specified period of time. Sometimes referred to as a class.

**Course abbreviation** – A shortened version of the name of a department; for example, ENGL for "English."

**Course number** – The number used with the course abbreviation to refer to a specific course; for example, "ENGL& 101."

**Course title** – The descriptive name of a specific course; for example, "English Composition I" is the course title for ENGL& 101.

**Credit or credit hour** – The unit of measurement for the amount of work and/or time required for a course. A five-credit class will usually meet five hours a week. Also known as quarter hour.

**Credit by exam** – An alternative method by which you may complete credits to earn a particular degree or certificate.

**Credit load** – The total number of credit hours you enroll in for a quarter.

**Curriculum** – A set of courses constituting an area of specialization.

**Degree** – Awarded for the successful completion of a specific program of study.

**Degree audit** – Online service available on the college web site to assist students in evaluating courses toward their degree or certificate goals.

**Department** – A specific area of study in which the college offers classes. Also, the group of faculty who teach that subject.

**Distribution** – Each degree requires completion of course work in specific learning areas: arts and humanities, science and mathematics, and social and behavioral sciences. These requirements provide students with a broad exposure to the humanities and sciences. To fulfill the requirements, students may choose from a wide variety of subject fields within each learning area.

**Diploma** – Awarded for successful completion of high school.

**Drop a course** – Withdrawal from a course by the deadline published in the quarterly class schedule.

**Direct Transfer Agreement (DTA)** – The Direct Transfer Agreement assures the transfer of credit, but not automatic admission (since each institution has separate admission criteria which are based on grades, test scores and other considerations) to a college or university with which Green River has such an agreement. Essentially, transfer agreements ensure that a student who completes an Associate of Arts degree at a community college will have satisfied all or most of the basic (i.e. general education or core) requirements at the various four-year institutions.

**Elective** – A course you choose to take which is not a core or required course for your particular program.

**Emphasis** – Concentrated study in a specialized area within a career/technical or academic program of study.

**Entry Codes** – Instructor permission codes that allow a student entry into a particular course or course section.

## 192 Glossary

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### **ESOL (English for Speakers of Other Languages)**

– A program designed specifically for those needing to further develop their English reading, writing, and speaking skills.

**Full-time student** – A student who is enrolled for 12 or more credits.

**General Education Requirements (GER)** – A range of courses distributed across various academic areas, required for the AS-T and other degrees, in order to develop breadth of knowledge outside the major field. Sometimes referred to as distribution requirements or core requirements, a.k.a. GUR, General Undergraduate Requirements.

**Grade points** – The number obtained by multiplying the numerical value of the grade you receive for a course by the number of credit hours earned in that course. For example, if you earn a 3.3 grade in a 5-credit course you earn 16.5 grade points for that course.

**Grade point average (GPA)** – The number obtained by dividing total grade points earned by total credit hours attempted in a quarter. Your cumulative grade point average is obtained by dividing total grade points on your record by total hours you have attempted.

**High School Equivalency Preparation Test** – A program for adults who have not graduated from high school and want to earn a certificate of **high school equivalency**.

**Independent study** – A course of study on a topic of interest to a student, designed with the help of an instructor and supervised by an instructor, and undertaken with departmental approval.

**International Baccalaureate - (IB)** – A rigorous pre-college course of study for highly motivated high school students.

**Major** – The subject area in which you choose to specialize.

**Major Related Program (MRP)** – A degree designed for students planning to transfer directly into a specific major at a baccalaureate institution.

**Non-resident student** – A student who has not lived in the State of Washington for at least one year before the initial quarter of study. See also Resident student.

**Northwest Commission on Colleges and Universities** – The regional association through which Green River College is accredited.

**Part-time student** – A student registered for fewer than 12 credits. See also Full-time student.

**Personal Identification Number (PIN)** – A randomly assigned six-digit number required for a student to access their records on the web. Students may change their PIN number online (through Online Services).

**Phi Theta Kappa** – The international honor society for two-year colleges. Its purpose is to recognize and encourage scholarship among students attending two-year colleges.

**Pre-professional program** – A program designed to fulfill part of the requirements leading to study in a professional program or school.

**Prerequisite** – A requirement that must be met before you enroll in a particular course, usually a test score or completion of another course.

**Prior Learning Assessment (PLA)** – An opportunity for students to earn credit for prior non-traditional education and/or work experience.

**Program of study** – A group of courses leading to a particular degree or certificate.

**Quarter** – The designation for a school term, lasting approximately 11 weeks (8 weeks for summer).

**Related instruction** – A range of courses distributed across various areas, required for a career/technical degree in order to develop breadth of knowledge outside the major field.

**Residence requirement** – Credits required by a college in order to fulfill degree requirements, which cannot be transferred in from another institution. At Green River, 25 of the final 45 credits must be taken in residence.

**Resident student** – A student who has lived in the State of Washington for at least one year immediately prior to the first day of instruction for a quarter.

**Section** – A specific class with its own unique days, hours, location and instructor. A number of sections of a certain course may be offered during a quarter, with different days, times, locations and instructors.

**Special Topics** – A course offering on a special topic of interest to students.

**Student Identification Number** – A unique number assigned to a student for tracking, data entry, identification, transcripts, and for conducting other college business.

**Student Learning Outcomes** – The knowledge, skills, abilities or attitudes that students have attained by the end of any set of college experiences—courses, programs, degrees and certificates or encounters with college services. Articulates the major goals of each experience, requires higher-level thinking skills and usually results in a product that can be evaluated.

**Study Day** – The day preceding the finals testing schedule to be used for study, reading, individual meetings with faculty, study groups or other activities that will better prepare the student for their final course assessments. Study day applies to day classes only and night classes will meet during their normal time period.

**Technology Fee** – A quarterly fee charged to students to support computer-based resources and services available to all students in the Holman Library and the open lab in the Technology building.

**TOEFL** – Test of English as a Foreign Language—a compulsory test for students wanting to study in U.S. colleges and universities.

**Transcript evaluation** – An official determination as to which courses taken at another college will be allowed for credit at Green River. Also, the determination by a four-year college as to which of your Green River courses will be allowed for credit at that institution.

**Transfer credits** – Credits earned at one college that are accepted toward a degree at another college.

**Transfer degree** – A degree intended to parallel the first two years of a bachelor's degree program.

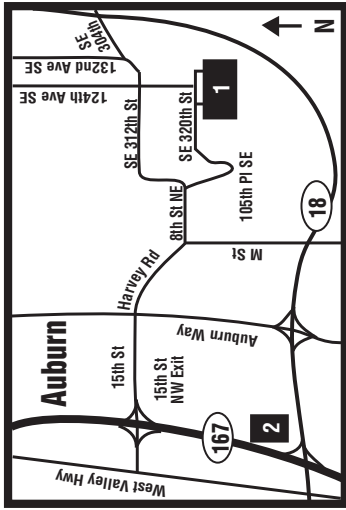
**Withdrawal from the college** – Officially dropping all courses for which you are enrolled for a particular quarter. See Drop a Course.



**NOTES**

**NOTES**

# Green River College



### 1 Main Campus, Auburn – Located at 12401 SE 320th Street

#### Southbound

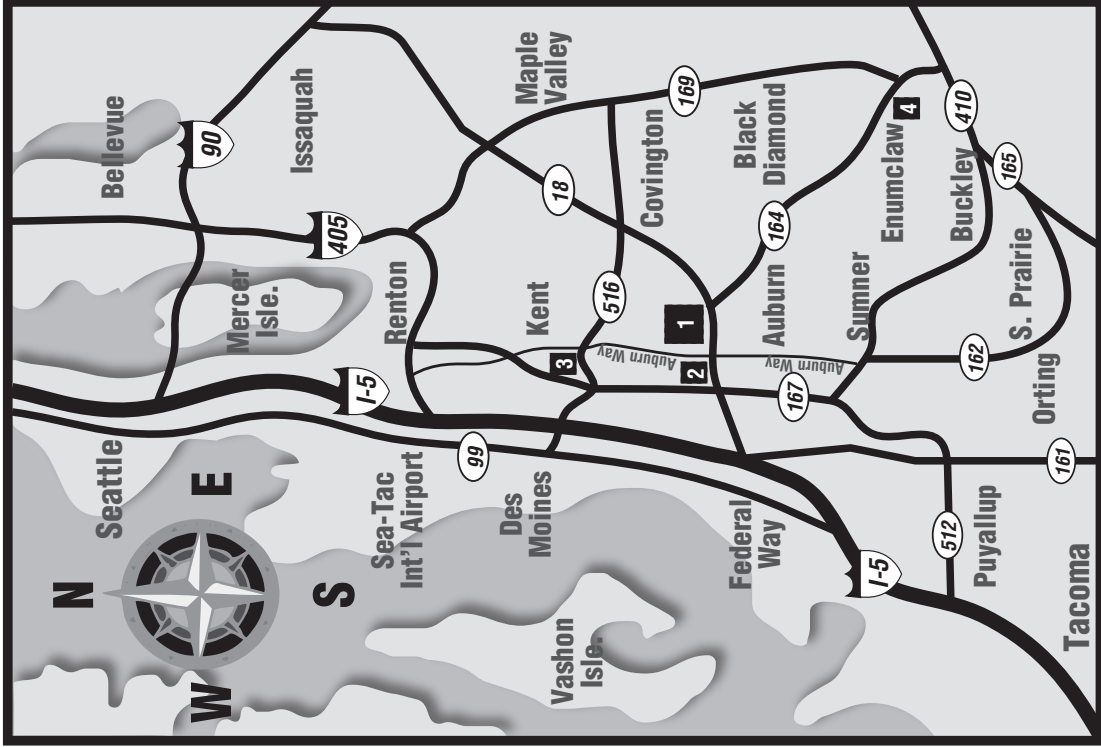
1. Take Hwy 167 South toward Kent / Auburn.
2. Take the 15th Street NW exit. Turn left onto 15th Street NW. (15th Street NW becomes Harvey Road.)
3. Turn left onto 8th Street NE.
4. Turn right onto 105th Place SE. Follow road to top of hill to SE 320th.

#### Northbound

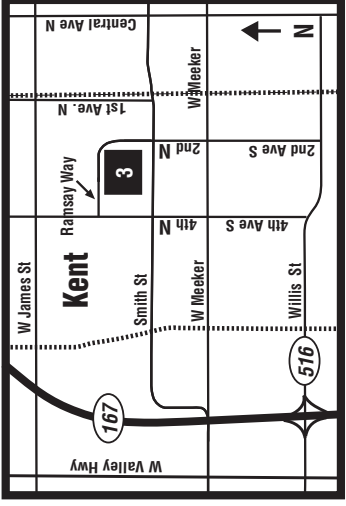
1. Take Highway 18 East toward Auburn / North Bend.
2. Take the SE 304th Street exit toward SE 312th Street.
3. Turn right onto SE 304th Street. (SE 304th Street becomes 132nd Avenue SE.)
4. Stay Straight to go onto 132nd Way SE. (132nd Way SE becomes SE 312th Street.)
5. Turn left onto 124th Avenue SE.
6. Turn left onto SE 320th Street.

### 2 Auburn Center – Located at 110 2nd Street SW

1. Take Highway 18 East toward Auburn.
2. Take the C Street SW exit.
3. Turn left onto C Street SW. Take the 3rd Street SW ramp.
4. Turn left onto S Division Street. Turn left onto 2nd Street SW.



# Regional Map



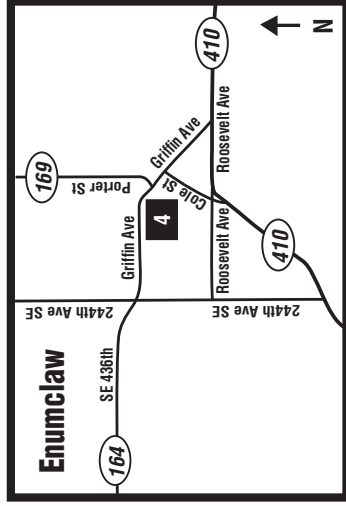
### 3 Kent Campus – Located at 417 Ramsay Way, Suite 112

#### Southbound

1. From Highway 167, take the Willis Street exit. Take a left onto Willis Street.
2. Heading east on Willis Street, turn left (north) on 4th Avenue S.
3. Turn right onto Ramsay Way, then right again at the first driveway, into the parking lot.

#### Northbound

1. From Highway 167, take the Willis Street exit. Take a right onto Willis Street.
2. Heading east on Willis Street, turn left (north) on 4th Avenue S.
3. Turn right onto Ramsay Way, then right again at the first driveway, into the parking lot.



### 4 Enumclaw Campus – Located at 1414 Griffin Avenue

#### Southbound

1. Take Highway 18 East. Take the Auburn / Enumclaw exit onto Auburn Way S.
2. Take a left onto Auburn Way (Highway 164). Travel about 12 miles. Highway 164 turns into Griffin Avenue.



COLLEGE

