

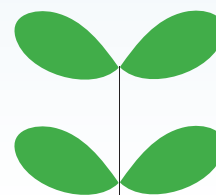
Green River Community College

CATALOG

2009–2011



Go Green!



www.greenriver.edu

Academic Calendar

Summer Quarter 2009–2010

June 22 CLASSES BEGIN
July 3 Independence Day Observed (*campus closed*)
August 13 LAST DAY OF THE QUARTER (*8-week session*)
September 3 LAST DAY OF THE QUARTER (*11-week session*)
September 7 Labor Day (*campus closed*)

Fall Quarter

September 15 Campus Workshop
September 16-18 .. Faculty Workshop
September 21 CLASSES BEGIN
October 19 Mid-Term Faculty In-Service Day
(*day classes cancelled*)
November 3 Advising Day (*day classes cancelled*)
November 11 Veteran's Day (*campus closed*)
November 26-27 ... Thanksgiving Holiday (*campus closed*)
December 7 Study Day (*day classes cancelled*)
December 8-10 Final Exams
December 10 LAST DAY OF THE QUARTER
December 24 Christmas Eve (*campus closes noon*)
December 24 Christmas Day Observed (*campus closed*)

Winter Quarter

December 11 Faculty In-Service Day (*no classes-break*)
December 31 New Years Eve (*campus closes noon*)
January 1 New Years Day Observed (*campus closed*)
January 4 CLASSES BEGIN
January 18 Martin Luther King Jr. Day (*campus closed*)
February 15 President's Day (*campus closed*)
March 16 Study Day (*day classes cancelled*)
March 17-19 Final Exams
March 19 LAST DAY OF THE QUARTER

Spring Quarter

March 29 CLASSES BEGIN
May 31 Memorial Day (*campus closed*)
TBA Mid-Term Faculty In-Service Day
(*day classes cancelled*)
June 9 Study Day (*day classes cancelled*)
June 10, 11, 14 Final Exams
June 14 LAST DAY OF THE QUARTER
June 14 Commencement

Summer Quarter

June 21 CLASSES BEGIN
July 5 Independence Day Observed (*campus closed*)
August 12 LAST DAY OF THE QUARTER (*8-week session*)
September 2 LAST DAY OF THE QUARTER (*11-week session*)
September 6 Labor Day (*campus closed*)

Summer Quarter 2010–2011

June 20 CLASSES BEGIN
July 4 Independence Day (*campus closed*)
August 11 LAST DAY OF THE QUARTER (*8-week session*)
September 5 Labor Day (*campus closed*)
September 1 LAST DAY OF THE QUARTER (*11-week session*)

Fall Quarter

September 14 Campus Workshop
September 15-17 .. Faculty Workshop
September 20 CLASSES BEGIN
TBA Mid-Term Faculty In-Service Day
November 3 Advising Day (*day classes cancelled*)
November 11 Veteran's Day (*campus closed*)
November 25-26 ... Thanksgiving Holiday (*campus closed*)
December 6 Study Day (*day classes cancelled*)
December 7-9 Final Exams
December 9 LAST DAY OF THE QUARTER
N/A Christmas Eve (*campus closes 12 noon*)
December 24 Christmas Day Observed (*campus closed*)

Winter Quarter

December 10 Faculty In-Service Day (*no classes-break*)
N/A New Years Eve (*campus closes 12 noon*)
December 31 New Years Day Observed (*campus closed*)
January 3 CLASSES BEGIN
January 17 Martin Luther King Jr. Day (*campus closed*)
February 21 President's Day (*campus closed*)
March 15 Study Day (*day classes cancelled*)
March 16-18 Final Exams
March 18 LAST DAY OF THE QUARTER

Spring Quarter

March 28 CLASSES BEGIN
May 30 Memorial Day (*campus closed*)
TBA Mid-Term Faculty In-Service Day
(*day classes cancelled*)
June 8 Study Day (*day classes cancelled*)
June 9, 10, 13 Final Exams
June 13 LAST DAY OF THE QUARTER
June 13 Commencement

IMPORTANT PHONE NUMBERS

Main college telephone numbers

Auburn.....	(253) 833-9111
Eastside	(206) 464-6133
Tacoma	(253) 924-0180

Offices

Admissions.....	ext. 2500
Assessment and Testing Center	ext. 2650
Campus Safety.....	ext. 3350
Campus Tours	ext. 6000
Career and Advising Center	ext. 2641
Cashier.....	ext. 2050
Continuing Education.....	ext. 2535
Cooperative Education	ext. 2550
Counseling Services	ext. 2460
Disability Support Services.....	ext. 2631
Diversity and Multicultural Affairs.....	ext. 2403
eLearning.....	ext. 3354
Employment Services	ext. 2550
Enrollment Services.....	ext. 2500
Enumclaw Campus	ext. 3400
Financial Aid	ext. 2440
Health Services.....	ext. 2430
International Programs.....	ext. 3300
Kent Campus	ext. 5000
Library	ext. 2090
The Paper Tree Bookstore.....	ext. 2069
Project TEACH	ext. 4361
Registration.....	ext. 2500
Running Start	ext. 2643
Student Life	ext. 2400
Tech Prep.....	ext. 2581
Trio/Student Support Services.....	ext. 2655
Tutoring	ext. 2325
Veterans' Service.....	ext. 2466
Washington State Center of Excellence for Careers in Education.....	ext. 4630
Welcome Center	ext. 6000
Women's Programs.....	ext. 2547
Worker Retraining.....	ext. 2211
WorkFirst	ext. 2211

FAX (ENROLLMENT SERVICES)

(253) 288-3454

MAIL

To write for information or to send materials to the college, use the following mailing address:

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

WEB SITE

www.greenriver.edu

CAMPUS VISITS

One of the best ways to get information about a college is to visit the campus. Many students have reported that a personal visit to campus was how they decided that Green River was right for them. Prospective students who are interested in visiting Green River should call ext. 6000 for more information. Groups should call ext. 3395. Visits may include a stop at the Career and Advising Center or a talk with faculty members regarding programs of interest.

CATALOGS

Catalogs are available in Enrollment Services office and on the Web at www.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 www.greenriver.edu/classschedule/.

INSTRUCTIONAL AREA BROCHURES

Call the Welcome Center at ext. 6000 for guides that give general information about individual professional/technical programs.

ONLINE SERVICES

Online services at www.greenriver.edu/online allows students to access relevant information in a convenient, easy manner. Students can do the following online:

- Apply
- Register online and pay tuition by credit card or electronic check
- 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 or update address
- Print HOPE scholarship and other tax credit information (1098-T form)
- Access scholarship and financial aid information

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 Center.

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DISCLAIMERS

Green River Community 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.

Green River Community College does not discriminate on the basis of race, color, national origin, sex, sexual orientation, disability, marital status, religion, age or any other unlawful basis in its programs and activities. 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.

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.



College

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Future

Welcome

- About Green River
- Accreditation
- Mission and Goals
- Student Resources

WELCOME

Choosing to enroll at Green River Community College admits you to a close family of faculty, staff, administrators, and other students committed to student success. Whether you are new to the college, or have attended before, we have the resources to support you.

We are extremely proud of our new Welcome Center, a one-stop location for new students to receive all of the information they need to get started at Green River. From placement assessment to advising, students find the Welcome Center to be a friendly and convenient entry point to college life.

As we approach 45 years of providing affordable educational opportunities, our campus continues to evolve with changes to both our campus and e-Learning environments. A new classroom building in the center of campus will enhance Green River's commitment to quality learning opportunities. Online learning and popular flex classes help make education more accommodating to your busy schedule.

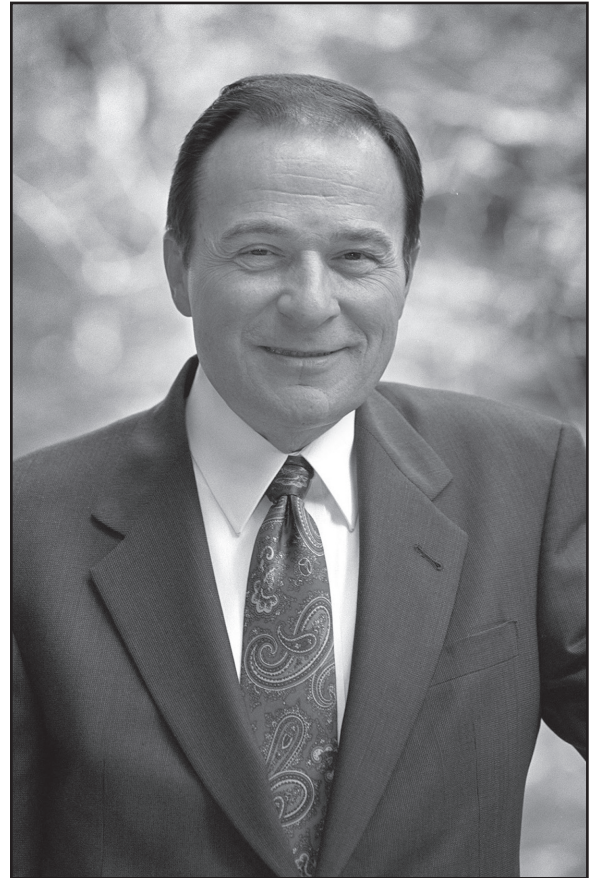
It takes dedicated people to help make your learning experience successful and enjoyable. Green River's outstanding faculty is passionate about teaching. Our academic courses prepare you to successfully transfer to four-year universities and colleges and our professional/technical programs can give you a competitive edge in business and industry.

We recognize the importance of student involvement. Green River offers many clubs and activities for you to be a part of. Fine arts, athletics and intramurals, student government, and on-campus student living at the college's Campus Corner Apartments are just a few examples of ways for you to enrich your student experience.

Thank you for choosing Green River Community College. On behalf of all of us here at the college, we wish you success in all of your educational and career endeavors. Please use the information in this catalog as you proceed. We hope that you will find it helpful.

Richard A. Rutkowski

Richard A. Rutkowski
President



**GREEN RIVER
COMMUNITY COLLEGE
BOARD OF TRUSTEES**

The Board of Trustees for Green River Community College is composed of influential community members who reside within the college's District 10 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 Community 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.



LARRY BROWN



LAWTON CASE



ARLISTA HOLMAN



SHERRY GATES



TOM CAMPBELL

ABOUT GREEN RIVER COMMUNITY COLLEGE

Green River Community College is a two-year public college that offers degrees and certificates in academic and professional and technical programs, as well as courses in continuing education and basic skills. Its roots stretch back to 1945, when the Auburn School District started an adult education evening program. Local committees began working to secure state approval to start a community college in 1959. In 1963, the determination of local citizens paid off when the State Board of Education approved the community college.

The College's professional and technical program began in September 1964 at a location near the Auburn Boeing plant. A year later, Green River Community College opened its doors at its present location on Lea Hill, east of Auburn. With increasing demand for higher education, Green River has opened satellite campuses in Kent and Enumclaw. The College's service area is defined as District 10 by the 1967 Washington State Legislature and is governed by a five-member board of trustees. Financial support comes from state appropriations and student tuition.

A core of about 146 full-time faculty and 242 part-time faculty teach daytime and evening classes. The student population is approximately 10,000—both full-time and part-time students—and features a growing diversity of ages and ethnic backgrounds.

VISION

Green River will be a leading community college committed to creating opportunities for lifelong learning and student success.

ACCREDITATION

Green River Community 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 Secretary of the U.S. Department of Education.

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

MISSION

Green River Community College improves the lives of people within our diverse communities by providing quality education and training programs. We assist students in defining and achieving their goals through instructional excellence, innovative programs and responsive services.

INSTITUTIONAL GOALS

1. Students will benefit from Green River's commitment to learning as its highest priority.

- Transfer students will meet the requirements for transfer to successfully pursue a baccalaureate degree.
 - Professional/technical and workforce students will master the skills sought by employers to be successful in the workplace.
 - Under-prepared students will demonstrate competency in reading, English, and math that prepare them for success in college-level courses.
 - Community members will have opportunities for life-long learning to enrich their lives personally, socially, and culturally.
2. Members of our diverse communities will have reasonable access to affordable educational programs and services that meet their needs.
 3. Underrepresented students will be provided services that support their learning and promote student success.
 4. The community will benefit from Green River's active participation in programs, events, collaborative partnerships, and entrepreneurial activities with government, business, and community organizations.
 5. The citizens of Washington will be ensured of Green River's consistent practice of responsible fiscal stewardship and public accountability.

PURPOSE

Green River provides learning opportunities for the residents of Washington. We continue to operate in accordance with the state of Washington's Community College Act of 1967.

ROLE AND SCOPE

Green River offers courses and programs leading to a variety of associate degrees, certificates, and diplomas in professional/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 enroll at the Main Campus in Auburn, the Enumclaw Campus, the Kent Campus, other community locations, and through distance learning. Green River also offers a variety of support services to currently enrolled and prospective students to increase their chances for success.

VALUES

We, the faculty, staff, administration and board of trustees of Green River, embrace the following values and beliefs:

- Recognizing student success as our highest priority

- Providing access to those who can benefit
- Embracing diversity
- Holding teaching excellence in high regard
- Recognizing the importance of student involvement
- Demonstrating accountability for achieving our goals
- Developing a global consciousness
- Ensuring a safe environment
- Preserving the natural campus environment
- Promoting innovation
- Fostering individual growth and development
- Respecting the worth and dignity of the individual

STUDENT LEARNING OUTCOMES

Green River Community 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 pages 26-28 for more information.

STUDENT RIGHTS AND THE STUDENT CODE OF CONDUCT

Admission to Green River Community 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 www.greenriver.edu/Policies/policies/RulesofStudentConduct.htm.

STUDENT RESOURCES

Green River Community 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.

ASSESSMENT AND TESTING CENTER

Zgolinski Welcome Center
(253) 833-9111, ext. 2652
www.greenriver.edu/AssessmentTesting/

The Assessment and Testing Center proctors COMPASS assessment, classroom tests, and the GED exam.

BOOKSTORE

Lindbloom Student Center, Room 104
(253) 833-9111, ext. 2069
www.greenriver.edu/bookstore/

In addition to carrying new and used textbooks, the Paper Tree bookstore stocks reference books, art and engineering supplies, and computer software. Students can also order textbooks online at www.greenriver.edu/bookstore.

CAREER AND ADVISING CENTER

Lindbloom Student Center, Room 126
(253) 833-9111, ext. 2641
www.greenriver.edu/career_advising/index.shtm

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. S.E.
Auburn, WA 98092-3622
(253) 939-7400
www.greenriver.edu/childcare

Green River's Child Development Center welcomes children ages 6 weeks to 5 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.

CONTINUING EDUCATION

Continuing Education Building
(253) 833-9111, ext. 2535
www.greenriver.edu/ce/

Continuing education classes are non-credit and self-supporting. Classes are featured in the Green River quarterly 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 Education classes by completing registration and paying the class fee. Students will not be required to complete college admission procedures.

COUNSELING AND HEALTH SERVICES

www.greenriver.edu/counselingandhealth/default.htm

Counseling

Lindbloom Student Center, Room 231
(253) 833-9111, ext. 2460

Short-term personal 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

Lindbloom Student Center, Room 227
(253) 833-9111, ext. 2430

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

THE CURRENT (STUDENT NEWSPAPER)

(253) 833-9111, ext. 2375
www.thecurrentonline.net/

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

DISABILITY SUPPORT SERVICES

Lindbloom Student Center, Room 271A
(253) 833-9111, ext. 2631
TDD: (253) 288-3359
www.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.

DIVERSITY AND MULTICULTURAL AFFAIRS

Lindbloom Student Center,
Rooms 253 and 254
(253) 833-9111, ext. 2403
www.greenriver.edu/studentprograms/diversity.htm

Diversity Services is committed to providing programs and services to recruit and retain ethnic student populations; educate and encourage the college and surrounding community to value differences; and develop and strengthen community partnerships with Green River Community College.

ENROLLMENT SERVICES

Lindbloom Student Center, Room 277
(253) 833-9111, ext. 2500
www.greenriver.edu/enrollment/index.shtm

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

FINANCIAL AID

Lindbloom Student Center, Room 231
(253) 833-9111, ext. 2449
www.greenriver.edu/financialresources

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 the Agency Funded Programs Office for assistance with tuition and book vouchers.

FITNESS AND WELLNESS CENTER

(253) 833-9111, ext. 4140

Here is your opportunity to participate in physical activity on campus! Use of the equipment, such as treadmills, Cybex bicycles, rowing machines, Nordic tracks, and many more is free to students during posted open hours.

FOOD SERVICE

Lindbloom Student Center, Room 148
(253) 833-9111, ext. 3366

Conveniently situated across from the open dining areas in the Lindbloom Student Center, 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.

HOUSING

On campus

(253) 833-9111, ext. 3620
www.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

Lindbloom Student Center, Room 204
 (253) 833-9111, ext. 2400

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

INSURANCE

Cashier's Office
 Lindbloom Student Center, Room 260
 (253) 833-9111, ext. 2050

Green River Community 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

Lindbloom Student Center, Room 204
 (253) 833-9111, ext. 2480
www.greenriver.edu/athletics

Green River Community College competes in the Northwest Athletic Association of Community Colleges in the following sports: Men's and Women's Cross Country, Women's Soccer, Volleyball, Men's and Women's Basketball, Baseball, Softball, Men's and Women's Golf and Men's and Women's Tennis.

INTERNATIONAL PROGRAMS

International Village, Building D
 (253) 833-9111, ext. 3300
www.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 Community College Foundation. It is a community outreach arts program intended to introduce elementary school children and their parents to the arts. We serve 20 area elementary schools with our visual arts program.

JUDICIAL PROGRAMS

Lindbloom Student Center, Second floor
 (253) 833-9111, ext. 3397

Judicial Programs oversees the nonacademic Student Code of Conduct and upholds the community standards of the college. Judicial Programs 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.

KGRG 89.9 FM AND KGRG 1330 AM

Lindbloom Center, Room 200
 (253) 833-911, ext. 2188

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

LIBRARY

Holman Library
 (253) 833-9111, ext. 2090
www.greenriver.edu/library/

The Holman Library is a 60,000 square-foot, information and technology center incorporating the college library, media services, a technology lab for faculty and instructional classroom space.

MATH LEARNING CENTER

Science, Math, Technology (SMT), Room 355
 (253) 833-9111, ext. 4498
www.greenriver.edu/tutoring_resources/mlc/index.shtm

Tutoring assistance, math videos, computers, textbooks, and other learning resources are available free of charge to support students in their math studies to achieve success.

OTHER CAMPUS LOCATIONS

Kent Campus

417 Ramsay Way, Suite 112, Kent, WA 98032
 (253) 856-9595
www.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, non-business and contract training programs. Kent Campus is located in the new Kent Station, offering a unique study environment, with great restaurants, coffee shops, and wireless Internet access. 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
www.greenriver.edu/enumclaw/

The Enumclaw Campus offers a personalized environment to students seeking degrees or personal enrichment, and to businesses who 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, placement testing, and women's programs at various times throughout the quarter.

Small Business Assistance Center

www.greenriver.edu/businesscenter/

The Green River Small Business Assistance Center provides technical assistance to small businesses in the South King County area. Individual counseling sessions provided by a certified business counselor 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. The SBAC are available in three locations:

Auburn Small Business Assistance Center
110 2nd St. SW, Suite 135, Auburn, WA 98001
(253) 333-4953

Enumclaw Campus Small Business Assistance Center

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

Kent Campus Small Business Assistance Center

417 Ramsay Way, Suite 112, Kent, WA 98032
(253) 856-9595

PARKING

Campus Safety
Administration Building, Room 28
(253) 833-9111, ext. 3350
www.greenriver.edu/about/transportation/

Students are required to register their cars with Campus Safety. The college has designated parking spaces for carpool, motorcycles, staff and vehicles with state-issued disability hang tags. There is additional free parking at Pacific Raceways and the Grace Lutheran church. Shuttle buses run from 7:30 a.m. to 5 p.m. daily from Pacific Raceways to the Holman Library and back.

PERFORMING ARTS

Visit www.greenriver.edu/studentprograms

The college is home to Rendezvous, a vocal jazz ensemble, and two theater groups. Theatre Extempore is tailored to adults, while Heavier than Air Family Theatre Company, our resident community theater group, is designed for families with children. For ticket information call Student Life, ext. 2400.

RUNNING START PROGRAM

Lindbloom Student Center, Room 126
(253) 833-9111, ext. 2643
www.greenriver.edu/running_start/

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, tuition free. For more information, see page 20.

SECURITY/SAFETY

Campus Safety
Administration Building, Room 28
(253) 833-9111, ext. 3350
www.greenriver.edu/safety/

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, and oversees after-hours facility access. Campus Safety will also render assistance to jump-start vehicles, help with locked vehicles, and escort people to their vehicles.

STUDENT HANDBOOK

www.greenriver.edu/studenthandbook/

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

STUDENT LIFE

Lindbloom Student Center, Room 204
(253) 833-9111, ext. 2400
www.greenriver.edu/studentprograms/

Student Life offers a variety of student-centered programs, including Community Leadership, Education and Outreach (CLEO), student leadership program, ASGRCC student government, clubs, lectures, musical entertainment, and other special events, to the student body. These programs allow students to have high-quality fun at a low/no cost.

TECHNOLOGY CENTER

This two-story building has classrooms and the Internet Café on the lower level and an information commons, IT help desk, and special laptop classrooms on the upper level. The information commons has over 100 computers for students use.

TRANSPORTATION

(253) 833-9111, ext. 2566
www.greenriver.edu/about/transportation/

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 preferred parking.

TRIO/STUDENT SUPPORT SERVICES

Lindbloom Student Center, Second Floor
(253) 833-9111, ext. 2655
www.greenriver.edu/trio/

TRIO is a federally-funded program offering intensive support for students who may be considering a transfer degree. TRIO provides individualized assistance for those participants who may need additional support adjusting to college culture, transferring on to four-year institutions or who may need extra help in core classes.

TUTORING AND RESOURCE CENTER

Holman Library, Second Floor
(253) 833-9111, ext. 2658
www.greenriver.edu/tutoring_resources/trc/index.shtml

Students who need help keeping up with their classes can get free tutoring at the Tutoring and Resource Center. Faculty-approved students help others with English, science, computer science, business, philosophy, psychology, foreign language and basic skills.

VETERAN'S SERVICES

Financial Aid Office
Lindbloom Student Center, Room 236
(253) 833-9111, ext. 2466
www.greenriver.edu/veterans/

The Veteran's Services office assists those who are eligible for Montgomery GI Bill benefits activate and maintain their benefits.

WELCOME CENTER

Zgolinski Welcome Center
(253) 833-9111, ext. 6000
www.greenriver.edu/welcome_center

The staff at the Zgolinski Welcome Center provides admissions, entry and advising services to new and prospective students. The center's staff also links new students with ongoing campus resources.

WOMEN'S PROGRAMS

Lindbloom Student Center, Room 230
(253) 833-9111, ext. 2547
www.greenriver.edu/womensprograms/

Women's Programs provides services and programs for new and returning students along with a variety of gender-equity activities, and projects. Women's Programs offers information and referral to campus and community resources and emergency funding.

WRITING CENTER

Rutkowski Learning Center, Room 173
(253) 833-9111, ext. 2166
www.greenriver.edu/tutoring_resources/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 Services, please visit www.greenriver.edu/resources/index.shtml.



Get Started

- Apply
- Placement
- Money for College
- Advising & Registration



Get started at Green River

1



Apply

Choose one of 3 easy ways:

- Online by selecting “Apply Online” at www.greenriver.edu
- In person at the **Main Campus** (Zgolinski Welcome Center), **Enumclaw Campus** or **Kent Campus**
- Call for an application at **(253) 833-9111**, ext. **2500**

2



Determine your placement

Take the **COMPASS*** at the **Main Campus** (Zgolinski Welcome Center), **Enumclaw Campus** or **Kent Campus**.

For hours, cost and information go to www.greenriver.edu/assessmenttesting or call **(253) 833-9111**, ext. **2650**.

**The COMPASS helps place you in the proper math, reading and writing course. It is not a pass or fail test.*

3



Money for college

Familiarize yourself with the following resources and programs that provide funding assistance:

- Our Web site at www.greenriver.edu/moneyforcollege
- **Financial Aid**, Main Campus (Lindbloom Student Center, Room 231), **(253) 833-9111**, ext. **2449**, finaid@greenriver.edu
- **Workforce Education**, Main Campus (Science, Math, Technology building, Room 122), **(253) 833-9111**, ext. **2211**, workforce@greenriver.edu
- **Tuition Payment Plan**, Main Campus (Lindbloom Student Center, Room 274), **(253) 833-9111**, ext. **2500**, enrollmentservices@greenriver.edu

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Advising & registration for classes

Sign up for a **New Student Advising session**. Register for classes at one of the following:

- In person at the **Main Campus** (Zgolinski Welcome Center), **Enumclaw Campus** or **Kent Campus**
- Online at www.greenriver.edu/edplanning/studentadvising
- By calling **(253) 833-9111**, ext. **2641**

5



Start classes!



To receive this information in alternative format, please contact Disability Support Services at **(253) 833-9111**, ext. **2631**; TTY **(253) 288-3359**.

GET STARTED



APPLY

Who Can Apply?

Admission to the college is open to anyone who has a high school diploma, GED, 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 on page 22.

When Should You Apply?

Students who plan to start classes fall quarter may apply any time beginning December 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 professional/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 (\$10.00 non-refundable application fee required):

- Online at www.greenriver.edu
- By submitting a Green River or State of Washington Uniform Community College Admissions form to Enrollment Services via mail. Students may request an application be mailed to them by calling Enrollment Services at ext. 2500.
- In person at the Welcome Center

After the college has processed the application, students will be mailed an acceptance letter. The letter will include their student identification number and a checklist guiding them through the process. The checklist includes information on assessment, orientation, advising, how to access their registration appointment, registration for classes, and more.

Application For Readmission

Students who have not attended Green River for at least one quarter, may re-apply online or by calling Enrollment Services. Once their record has been updated, they will be assigned a registration time. 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, 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 Community 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 calendar for quarter dates, inside front cover.) 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 professional/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, along with a request form for transcript evaluation.

Records become the property of Green River and will not be returned to students. Upon completion of the evaluation, students will be provided with a written response indicating which courses have been accepted as transfer credit to Green River and the Green River course equivalent for each transfer course. 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.



PLACEMENT

Assessment

New students take a computerized assessment for course placement. Assessment is a tool that identifies the student's skill levels in math, reading, and writing. Students must have an application for admission on file prior to completing the assessment. There is a \$20.00 fee for the assessment.

Sometimes wrongly referred to as a test, the assessment is not a test that can be passed or failed. The "score" on the computerized assessment simply indicates the appropriate starting point for each student enrolling in core subjects.

Writing Placement

Students are placed in their first English writing class based on their assessment. The writing assessment will evaluate skills in writing, punctuation, grammar, and composition. Students then follow the English sequence required for their educational or degree goals.

Reading Placement

Students are recommended to the appropriate reading or study skills class by the assessment. Skills reviewed are vocabulary, comprehension, ability to make inferences and locating main topics and ideas. Students then follow the reading sequence required for their educational goal.

Mathematics Placement

Students are placed in their first math class after they have completed the math assessment. Students then follow the math sequence that is necessary for their degree or educational goal. See Welcome Center staff for information about alternate math assessments and placement options.

Assessment Exemptions

Assessment is required for all new students, those seeking degrees or certificates, and those who plan to enroll in English or math courses.

Assessment may be waived for the following:

- Students who submit official transcripts showing successful completion of college-level math and Engl& 101 (or its equivalent).
- Students planning to take seven or fewer total credits that do not include or require math or English.
- Students who have taken the Advanced Placement examination in math and English and received a grade of 3, 4 or 5 in each area. (See Advanced Placement on page 23 for more information.)

Questions regarding student placement and exemptions should be directed to the Assessment and Testing Center in the Zgolinski Welcome Center at ext. 2650.

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 must be placed by a foreign language instructor.

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 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.

How to Apply for Financial Aid Process

Apply for admission to the college.

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

FINANCIAL AID PROGRAMS	
<u>Grants/Programs</u>	<u>Brief Description</u>
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.
Academic Competitiveness Grant	A federal grant program for undergraduate students receiving Pell Grant.
<u>Employment Programs</u>	
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.
<u>Loan Programs</u>	
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.
<u>Scholarships</u>	
Green River Foundation Scholarships	A variety of scholarships funded by the Green River Foundation.
<u>Agency Funded Programs</u>	
A variety of funding options are addressed on page 15	Many agency funded programs are available including, but not limited to, veteran's benefits and funding for low-income students.

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.

Financial aid is available to all qualified students regardless of race, ethnicity, creed, color, national origin, sex, marital status, sexual orientation, age, religion, or the presence of any sensory, mental or physical disability, status as a disabled person or veteran of war, in accordance with the Americans With Disabilities Act of 1990, Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973.

Eligibility

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

- Have a high school diploma or GED certificate or complete 6 college-level credits with a GPA of 2.0;
- 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 Community College Foundation offers over 150 different 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 Agency Funded Programs, located in the Financial Aid Office, to turn in paperwork and pick up tuition and book vouchers.

Veteran's Benefits

The G.I. Bill, veteran's assistance, and other military education benefits can all be applied to the cost of attending Green River.

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 professional/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 rates 2009-2010 <i>Tuition and fees are subject to change by the Washington State Legislature.</i>	Washington Resident	U.S. Citizen/Immigrant Non-Resident Waiver	International and Other Non-U.S. Citizen
Per credit (1-10 credits)	\$81.00	\$94.00	\$253.00
Per credit (11-18 credits)	\$33.00	\$35.00	\$37.00
Per credit (19 credits and over), except as noted below for those who qualify.	\$73.00	\$86.00	\$245.00
Professional/Technical surcharge for more than 18 credits (per credit)	\$33.00	\$35.35	\$37.00
* Veterans per credit (1-10 credits)	\$72.90	N/A	N/A
* Veterans per credit (11-18 credits)	\$33.00	N/A	N/A
* Veterans surcharge for more than 18 credits (per credit)	\$73.00	N/A	N/A
High School completion age 19 and over (per credit – up to 18 credits)	\$12.00	\$81.00	\$253.00

**See Enrollment Services Office for specific guidelines. Copy of DD214 required.*

NOTE: 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.

Tuition Payment Plan

Our Student Tuition Easy Payment Plan (STEPP) 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 per quarter, depending on the program. Textbook prices are subject to change without notice.

Tuition and Fees

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

See Tuition Rates chart on page 15. 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, and \$3.50 per credit after 5 credits, not to exceed \$35, is applied to all credits.

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 \$30 for the 2009-2010 and flat \$35 for 2010-2011 school year (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	\$10
Assessment	\$20
Assessment Retakes	\$10
Cap and gown, tassel	\$24
General Education Development Test (GED)	\$75
GED retest	\$15
Graduation fee	\$10
Lock fee (refundable)	\$7.50
Transcript Fee	\$3

Special Courses

Parent Child Education	\$12 per credit
Basic Skills	\$25 per quarter



ADVISING AND REGISTRATION

Entry Advising

After completing COMPASS in the Welcome Center, students meet with an entry advisor. In this session, students learn the results of their COMPASS placement; recommended first quarter classes in reading, English, and math; funding options and appropriate next steps. Next steps might include New Student Advising, meeting with faculty, attending a funding workshop, or participating in a New Student Orientation. During entry advising, students are assigned faculty advisors for future assistance.

New Student Advising

New Student Advising is an opportunity to meet other new students and learn more about the process of selecting and registering for classes at Green River. These group sessions are presented by Educational Planners who will help students with degree selection and course requirements.

Once you have applied for admission, sign up for a New Student Advising session:

- In person during Entry Advising or at the Kent or Enumclaw campuses
- Online at www.greenriver.edu/advising
- By calling the Welcome Center at (253) 333-6000.

Future Quarter Advising

Faculty advisors and the Career and Advising Center staff are available to guide students through the process of enrolling in courses 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 within the college. 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.

Make a list and ask 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 catalog(s) 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 Web site.

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.

Students may view their registration access time online at www.greenriver.edu/online.

Green River Community 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 fulltime 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 professional/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 professional/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 registration access times are posted two weeks prior to the start of registration.

Students may view their registration access time through our Web site at www.greenriver.edu/online, then “registration access time.”

New student registration begins immediately 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 New Student advising session.

Advising is required for students their first quarter. (See page 16.)

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 new student advising session. To change a PIN via the Web,

- visit www.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:

- Class Information
- Degree Audit
- Financial Aid Inquiry
- Registration Access Time
- Web Registration
- Schedule Planner
- Student Address

- Student PIN Change
- Student Schedule
- Tax Credit Information
- Unofficial Transcript
- Waitlist Inquiry and update

Last Day To Register

Students must register by the third 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

If a student misses the first three sessions of a day class or the first two sessions of an evening class without notifying the instructor, the student may be submitted as a “no-show.” If submitted as a no-show, a “0.0” grade (failing) will be posted to the student's transcript at the end of the quarter. To have the failing grade removed from the student's permanent record, the student must officially withdraw from the class prior to the “last day to complete official withdrawal” date as published in the quarterly class schedule. It is the student's responsibility to complete and submit the required paperwork to Enrollment Services.

Refund Policy

When students reduce their class load or completely withdraw from school, whether they have attended classes or not, Green River will refund tuition for their dropped credit(s) according to the refund conditions listed below. Fees are non-refundable after the first day of the quarter. (Summer quarter differs — review the quarterly schedule for refund dates.)

Students will receive a 100 percent refund when:

- Students reduce their class load or completely withdraw from school by completing the Registration Change of Schedule form and submitting it to Enrollment Services prior to or on the first official 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).
- Courses or programs are canceled by the college.

Students will receive an 80 percent refund when:

- Students reduce their class load or completely withdraw from school online or by completing the Registration Change of Schedule form and submitting it to Enrollment Services during the second through fifth day of classes of the quarter (or during the second through fifth day of classes of the quarter for identified late-start classes that begin after the first week of the quarter).

Students will receive a 40 percent refund when:

- Students reduce their class load or completely withdraw from school online or by completing the Registration Change of Schedule form and submitting it to Enrollment Services during the sixth through 20th calendar day of the quarter (or during the sixth through 20th day of the quarter for identified late-start classes that begin after the first week of the quarter).

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 20th 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 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 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 can drop classes using online services through the eighth week of the quarter or complete the withdrawal portion of the Registration/Change of Schedule form and submit it to Enrollment Services.

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 0.0-0.6 grades or incompletes). 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 color 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:

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.

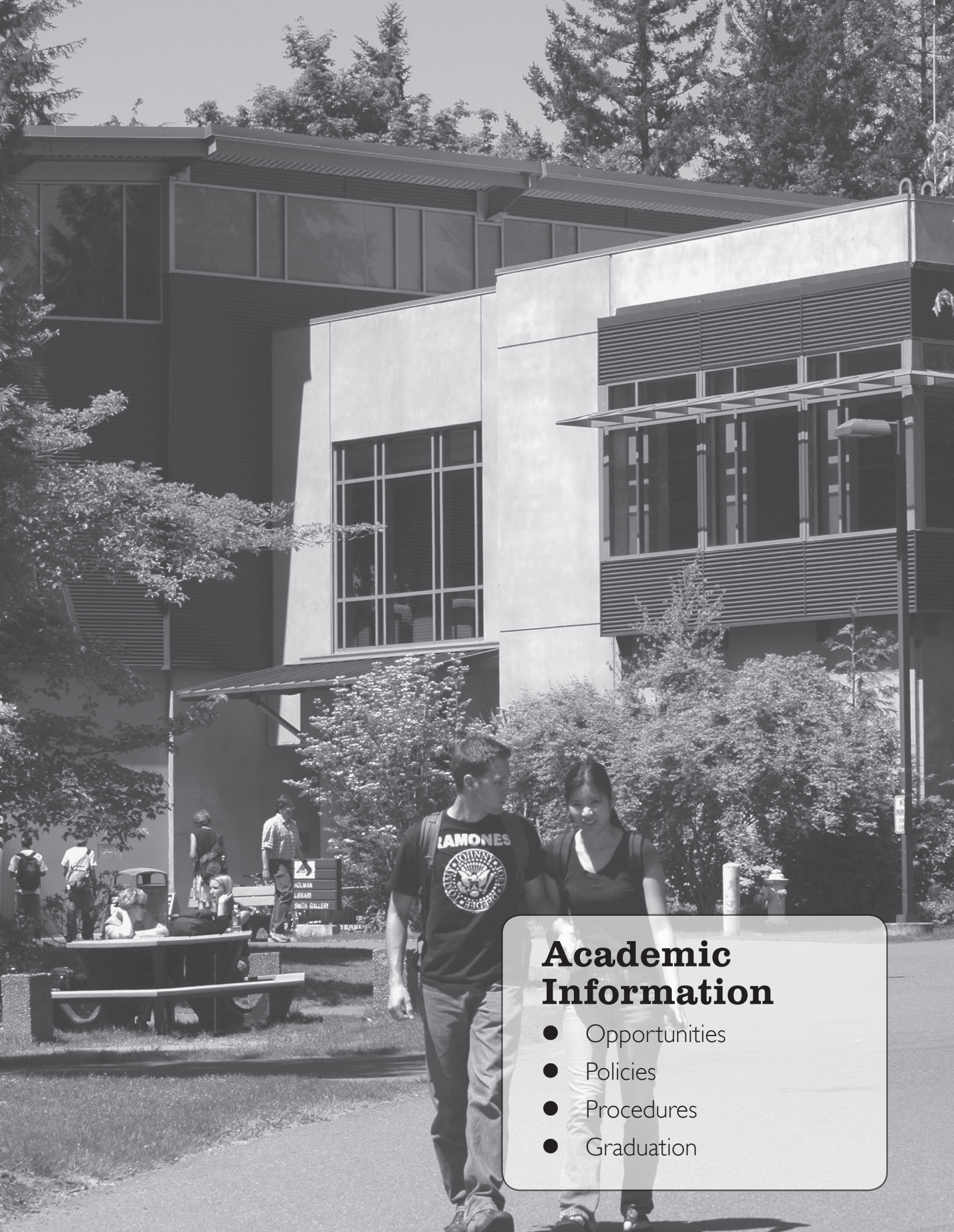
Residency Reclassification

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.

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.



Academic Information

- Opportunities
- Policies
- Procedures
- Graduation

ACADEMIC OPPORTUNITIES

ADULT BASIC EDUCATION

(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 professional/technical program, preparing to take the GED 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 Washington state Office of Adult Literacy. Entering students take a placement test to determine level.) Classes are offered in morning, afternoon and evenings at the college and at several off-campus sites, as well as online.

e-LEARNING

(253) 833-9111, ext. 3354

eLearning courses offer students additional opportunities to pursue courses, degrees, and certificates that might not otherwise be available to them. These courses utilize educational technologies such as course delivery systems and the Internet, in addition to regular class materials to assist students. Some of the eLearning courses, FLEX courses and telecourses, may 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 www.greenriver.edu/elearning. This site lists the courses, the instructor and directions to the class sites.

Green River offers the following types of eLearning courses:

Green River Online Courses

Green River faculty has 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

Angel Learning's course delivery system. Please go to www.greenriver.edu/elearning for the current schedule and directions to the course.

FLEX—Flexible Learning Experience

FLEX 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 Angel Learning and/or other established Web sites. Visit www.greenriver.edu/eLearning for the current schedule and more information about courses.

Telecourses

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 www.greenriver.edu/elearning for the current schedule and information about the courses.

Washington Online Internet Courses

A few of our online courses are offered by Washington Online. WAOL courses are developed by college instructors from around the state and function just like our online courses. All WAOL courses use Angel Learning courseware but on a different Web site than Green River online courses. If you have questions about WAOL courses, call 1-888-580-9011 or visit their Web site at www.waol.org. To see which WAOL classes we are offering and to find directions to the WAOL Angel Learning site visit www.greenriver.edu/elearning.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

(253) 833-9111, ext. 2315

ESOL classes are designed for non-native speaking adults who want to improve their English language fluency, reading, writing, speaking, listening, and basic computer literacy skills. ESOL classes are offered for all immigrants and refugees. Classes provide life skills, job skills, and preparation for academic classes. Classes are available in the morning, afternoon, and evening at the college and at several off-campus sites.

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 international students the strong English communication skills necessary for success in college. The IESL program is for students who score lower than 500 on TOEFL.

The program includes five levels of courses in speaking and listening (oral), grammar, writing, reading, and optional TOEFL. 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. 4361

Project TEACH is a pre-service teacher preparation program 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 page 37). Future secondary teachers of math and science can also complete specialized AA or AS-T degrees.

GRCC 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.

In collaboration with Project TEACH, Central Washington University (CWU) offers a BA in Elementary Education with a Science Education focus on the Kent campus.

For more information about Project TEACH, visit our Web site at www.projectteach.org.

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, tuition free (courses numbered 100 or higher). To qualify, students must attain specific placement scores on the COMPASS assessment, as well as be enrolled through a public high school/district. Students who are homeschooled 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 special class fees.

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. Please visit the Running Start Web site at www.greenriver.edu/running_start for more information on this exciting opportunity.

STUDY ABROAD

(253) 833-9111, ext. 2160

Green River Community College provides students with the opportunity to study abroad while earning Green River transferable credits. Students typically receive 15 academic transfer credits for a 10-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 and Spain.

Visit www.greenriver.edu/studyabroad for more information.

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 community/technical college credit for completing select high school courses with a grade of "B" (3.0) or higher.

Earning Tech Prep "Dual Credit" is as easy as 1-2-3:

1. Students enroll in high school classes offering Tech Prep "Dual Credit"
2. Complete the online registration process
3. Earn a "B" (3.0) or higher.

Eligible Programs at Green River may include:**

- Accounting
- Administrative Assistant
- Automotive Technology
- Auto Body Technology
- Aviation
- Business
- Carpentry Technology
- Criminal Justice
- Drafting Technology
- Early Childhood Education
- Information Technology
- Manufacturing Technology
- Medical Office Assistant
- Natural Resources
- Welding Technology

** Programs may vary each year. Contact the Tech Prep Consortium office for details at (253) 833-9111, ext. 2581.

WASHINGTON STATE CENTER OF EXCELLENCE FOR CAREERS IN EDUCATION

(253) 833-9111, ext. 4360

Eleven Centers of Excellence were selected to provide statewide leadership to the Washington State two-year college system through best practices, innovative curriculum, and emerging technologies needed to support key industries. At Green River Community College, The Center of Excellence for Careers in Education provides support, mentoring, and advising to community colleges and their K-20 partners for the creation and expansion of career-ladder programs in education. The center provides a yearly best practices conference, a comprehensive Web site, curriculum development and dissemination, and training for K-20 instructors and para-professionals.

WORKFORCE EDUCATION

(253) 833-9111, ext. 2211

workforce@greenriver.edu
www.go2collegetfree.com

Workforce Education administers four programs that provide free or reduced tuition to students who qualify. Our programs may also assist with books, fees, and, in some cases, educational supplies. For more information, visit www.go2collegetfree.com. The programs offered include:

Worker Retraining

The Worker Retraining program provides job training for unemployed workers, those facing imminent layoffs, displaced homemakers, honorably discharged members of the military, and small business owners whose companies have closed due to a general economic decline in their industry or region. The program allocates funds on a quarterly basis to help pay for tuition, fees, and books.

WorkFirst/Low Income Working Parent

The WorkFirst program pays 100 percent of 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). The Low Income Working Parent program provides the same benefit to working parents whose income remains below 175 percent of the federal poverty level.

BFET (formerly FSET—Food Stamp Employment and Training)

BFET pays 100% of tuition, books, fees, and required supplies for adults who live in King County, 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 funds tuition, fees, and up to \$1000 per year for books for low-income students in specific, state-approved career paths. Opportunity Grant is also available for undecided students who begin their studies in one of the approved paths.

ACADEMIC POLICIES

ACADEMIC STANDARDS AND PROGRESS POLICY

Every student who enrolls at Green River Community College 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 Legislature of the State of Washington 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; and
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 online and in the student handbook.

ADVANCED CREDITS

Some students may receive credit through the Advanced Placement Program of the College Entrance Examination Board, articulation agreements with area high schools, the College Level Examination Program, and military school or experience. Information regarding these programs is detailed on below.

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

See page 23 for the list showing division policies on granting placement or credit for AP examinations. Grades range from a high of 5 to a low of 1; in most departments, credit and/or placement is awarded for grades of 3 or higher. In some cases, the student must consult the appropriate departmental advisor.

Articulation Agreements

Green River recognizes that quality education takes place in other learning institutions. In realization of this, Green River Community College has signed articulation agreements with area high schools, as well as other institution 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

GRCC 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 GRCC into specific college departments. The agreement between GRCC and the other

colleges identify specific courses that if taken will be allowed for automatic credit at the other institution. In doing so, GRCC is enabling students to, for the most part, transfer directly into their majors. Students should contact their GRCC program advisor for agreements in their area of study.

High School Agreements

GRCC 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 B (3.0) or higher in their high school professional/technical courses. Credits are posted to transcripts during the summer following the school year 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 professional/technical programs are being developed.

Students can contact their high school counselor or the GRCC Tech Prep office for more details.

Professional/Technical (Tech Prep)

Tech Prep is a course of study that combines academic and professional/technical instruction in the high school setting, and then directly applies those high school credits to a specific community or technical college program (see page 56).

The South King County Tech Prep Consortium has developed articulation agreements between area school districts and three local colleges: Green River Community College, Highline Community College, and Renton Technical College. Tech Prep articulation agreements allow high school students to earn both high school and community/technical college credit through the "Direct Credit" program.

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 GRCC 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. GRCC 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 or AART, certified copy of their transcripts or a copy of their DD 214s to the Enrollment Services office with a request for transcript translation 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 receive 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.

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. 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 Authorization signed by the appropriate high school official when they apply for admission. Applications for underage students must have a signed release form attached 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.

ADVANCED PLACEMENT – GENERAL EXAMINATIONS				
Exam Name	Minimum Score	GRCC Course	Distr	Comment
Art 2D Design	4	Art 109, Beginning Design	Hu	GRCC department faculty will review student AP portfolio for acceptance of credit. An additional portfolio of five abstract artworks plus an essay evaluating design principles of an artwork is recommended.
Art 3D Design	4	Art 110, Intermediate Design and Color	Hu	GRCC art faculty also reviews student AP portfolio for final approval.
Art History	5	Elective	Elective only	
Art Studio (Drawing)	4	Art 105, Beginning Drawing	Hu	GRCC department faculty will review student AP portfolio for acceptance of credit.
Biology	3	Biol 100, Survey of Biology	LS	
Calculus AB	5	Math& 151, Calculus I and Math& 152, Calculus II (10 credits)	MS	
Calculus AB	3	Math& 151, Calculus I	MS	
Calculus BC	4	Math& 151, Calculus I and Math& 152, Calculus II (10 credits)	MS	
Calculus BC	3	Math& 151, Calculus I	MS	
Chemistry	5	Chem& 161, General Chemistry with Lab I and Chem& 162, General Chemistry with Lab I, and Chem& 163, General Chemistry with Lab III (18 credits)	LS	
Chemistry		Chem& 161, General Chemistry with Lab I and Chem& 162, General Chemistry with Lab II (12 credits)	LS	
Computer Science A	3	CS& 131, Computer Science I–C++	MS	
Computer Science AB	3	CS& 141, Computer Science I–Java	MS	
Economics (Macro)	4	Econ& 202, Macroeconomics	SS	
Economics (Micro)	4	Econ& 201, Microeconomics	SS	
English Language/Comp	5	Engl& 101, English Composition I and Engl 126, Writing: Humanities), or Engl 127, Writing: Social Science), or Engl 128, Research Writing: Engineering/ Science/Business (10 credits)	BS/Hu	
English Language/Comp	4	Eng& 101, English Composition I	BS/Hu	
English Language/Comp	3	Waive Engl& 110, English Composition I (no credit)	BS/Hu	
Environmental Science	4 or 5	Env S 204, Natural Science and the Environment	NS	
French Language	3	Frch& 121, French I	Hu	
French Language	4	Frch& 122, French II	Hu	
French Language	5	Frch& 123, French III	Hu	
French Literature	5	Elective	Elective only	
Human Geography	3	Geog 108, Introduction to Human Geography	SS	

24 Academic Information

ADVANCED PLACEMENT – GENERAL EXAMINATIONS				
Exam Name	Minimum Score	GRCC Course	Distr	Comment
German Language	3	Germ& 121, German I	Hu	
German Language	4	Germ& 122, German II	Hu	
German Language	5	Germ& 123, German III	Hu	
German Literature	5	Elective	Elective only	
Government & Politics (American)	4	Pols& 202, American Government	SS	
Government & Politics (Comparative)	4	Pols& 204, Comparative Government	SS	
History (European)	5	Elective	Elective only	
History (U.S.)	4	Hist& 136, U.S. History 1 or Hist& 137, U.S. History 2 (5 credits)	SS	
History (U.S.)	5	Hist& 136, U.S. History 1 or Hist& 137, U.S. History 2 (5 credits)	SS	
History (World)	4	Hist 101, The Ancient World or Hist 102, Early Modern World or Hist 103, The Modern World (5 credits)	SS	Depending on epoch taught (see history department for determination)
Latin: Latin Literature	5	Elective	Elective only	
Latin: Vergil	5	Elective	Elective only	
Physics B	5	Elective	Elective only	
Physics C: E + M	5	Elective	Elective only	
Physics C: Mech.	5	Elective	Elective only	
Psychology	4	See department faculty	SS	See Department faculty for placement or acceptance of credit.
Russian Literature	5	Elective	Elective only	
Spanish Language	3	Span& 121, Spanish I	Hu	
Spanish Language	4	Span& 122, Spanish II	Hu	
Spanish Language	5	Span& 123, Spanish III	Hu	
Spanish Literature	5	Elective	Elective only	
Statistics	4	Math 256, Statistics for Business and Social Science	MS	

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

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 153, they may receive additional credits.

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

- 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 disenrolled.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

(253) 833-911, ext. 2650

Green River recognizes that many students learn traditional college course content in non-traditional ways. To accommodate those students who seek traditional credit for informal learning experiences by taking the CLEP Examinations, the college has established criteria and procedures for granting credit for the CLEP exams. In all cases, the division responsible for the instruction of the specific course will evaluate each examination and recommend to the registrar whether or not credit will be awarded for a specific class. Please consult Enrollment Services or the Assessment and Testing Center for more information on the tests, credit possibilities, criteria, and procedures.

GRADING SYSTEM AND POLICY

Grades

Under Green River's numerical grading system, instructors may report grades from 4.0 to 0.0 in 0.1 increments.

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	
D–	0.7	Lowest passing grade
F	0.0–0.6	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.

- 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 www.greenriver.edu/ online, then "Unofficial Transcript."

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 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 Applied Science-Transfer, Associate in Math Education, Associate in Pre-Nursing, Associate in Applied Arts, Associate in Applied Science, and Associate Pre-Professional degrees.

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 Science and Family Studies Division has more restrictive policies regarding repetition of classes. See program advisor for specific information.

Credit by Challenge

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

- Student believes he or she has achieved the required knowledge or skills necessary to receive credit without regularly attending the class sessions; and
- 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 GRCC. The requirements for the policy are as follows:

- Student has had at least a two-year absence from GRCC and grades to be excluded must have been taken prior to the two-year absence.
- After returning to GRCC 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 GRCC) 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 GRCC 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.
- Submit form to Enrollment Services-Records who make decision, 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 completed an individual course that met distribution degree requirements or fulfilled 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 our Web site www.greenriver.edu.

STUDENT LEARNING OUTCOMES

Green River Community 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 ability to use common tools of information research in writing.
- 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. GRCC 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 works with diverse groups.

ACADEMIC PROCEDURES

ACADEMIC RECORDS

Change Of Address

If the students' current address is different from the one on file, they must file a change of address form with Enrollment Services or access our Web site at www.greenriver.edu/ online. This will enable the college to mail important information to the correct address. If students fail to complete a change of address form, the college will not be responsible for problems in communication with the student. Students should also notify the Financial Aid Office of their change of address.

Confidentiality Of Records

Students at Green River has 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 (SID)

All students are assigned a SID to use for all transactions at Green River Community 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 your 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 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

Transcripts of each student's permanent record of grades is maintained in Enrollment Services and is available by written request only. An official transcript of grades will be sent to any high school, college, university or other agency upon the student's request. To have a transcript sent, one must complete and submit a transcript request form to the Enrollment Services office and pay \$3.00 for each transcript. Processing takes one or two business days contingent upon completion of current quarter's grading.

A "hold" may be placed upon your records for financial obligations to the college. Holds on permanent records must be cleared by the student before transcripts will be released.

Transcripts covering previous secondary or college education that are submitted to Green River as part of the admissions and records process become part of student's official file. They cannot be returned or forwarded to a third party. Students who want transcripts of work completed elsewhere must order a transcript from the appropriate institution. Green River does not issue or certify copies of transcripts from other institutions.

How do I get a copy of my transcript?

- Students can fill out a transcript request form at the Enrollment Services window to receive an official copy of their transcript, allowing one or two business days for processing. Picture ID required.
- Students may send a letter requesting a transcript and include a \$3.00 fee for each transcript request. The letter must include student name, student identification number, birth date, and the approximate date when they last attended Green River.
- Students may print unofficial copies of their transcript at our Web site at www.greenriver.edu, select "Online Services," then "more" or request a copy from Enrollment Services. Picture ID required.

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 professional/technical program or their intended major (if transferring to a college or university), must do the following:

- Obtain a Change of Advisor/Program Request form from Career and Advising Center.
- With the assistance of a faculty advisor or an advisor from the Career and Advising Center, fill out the Change of Advisor/Program Request form and obtain the signature of the new advisor.

A list of faculty advisors with their departments, extensions and office locations is available in the Career and Advising Center.

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 Enrollment Services.

Applications for graduation and detailed instructions are available at the Enrollment Services window on the second floor of the Lindbloom Student Center. Students may also run a degree audit by accessing Online Services at www.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 professional/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 Community 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 the end of 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. Written faculty or advisor approval is required when submitting your request.

GRADUATION REWARDS

Scholastic Awards

Scholastic awards celebrate student success by recognizing graduates who:

- Earn an associate degree in arts, business, math, elementary education, pre-nursing, science, applied arts, and applied science, or a pre-professional (academic transfer or professional/technical programs only);
- Attain a minimum 3.9 grade point average (include transfer credits and grades from all quarters except the spring quarter in which they may be graduating.
- Earn a minimum of 24 credits at GRCC, including the last quarter in residence; and
- 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

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:

Highest Honors	3.9 GPA
High Honors	3.7 – 3.89 GPA
Honors	3.5 – 3.69 GPA

Graduation honors are based on GRCC 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.

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.



Go

Green

River

Programs of Study

- University Transfer
- Professional/Technical
- Other Learning Options

DEGREES AND CERTIFICATE PROGRAMS

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

University Transfer	AA-DTA AB-DTA/MRP AEE-DTA/MRP	Associate in Arts Degree–Direct Transfer Agreement Associate in Business Degree–Direct Transfer Agreement/Major Related Program Associate in Elementary Education Degree-Direct Transfer Agreement/Major Related Program
	AFA-DTA AM-DTA APreN-DTA/MRP A-PP AST-1 AST-2 AST-2 MRP AAS-T A-Cert	Associate in Fine Arts in Art–Direct Transfer Agreement Associate in Math Education Degree-Direct Transfer Agreement Associate in Pre-Nursing Degree-Direct Transfer Agreement/Major Related Program Associate in Pre-Professional Degree Associate in Science Degree-Transfer Option 1 Associate in Science Degree-Transfer Option 2 Associate in Science Degree-Transfer Option 2/Major Related Program Associate in Applied Science-Transfer Degree Academic Certificate
Professional/ Technical	AAA AAS Cert Cert-P	Associate in Applied Arts Associate in Applied Science Certificate (45 credits or more) Certificate of Proficiency (44 credits or less)
Other Learning Options	AD GED HS	Associate Development General Education Development Certificate High School Diploma

<u>Program</u>	<u>Page No.</u>		
Associate in Arts Degree, AA-DTA.....	35-36	Aviation	
Associate Development, AD.....	98	Advanced Air Traffic Control, Cert-P	65
Accounting, AAA, Cert-P	58	Advanced Aviation Knowledge, Cert-P	67
Accounting Clerk, Cert-P	58	Air Traffic Control, AAS.....	64
Administrative Assistant, AAA, Cert	58-60	Air Transportation, AAS	63-64
Data Entry, Cert-P	60	Aircraft Dispatcher, Cert-P	64
File Clerk, Cert-P.....	60	Airline Dispatch, AAS.....	65
Office Support 1, Cert-P	60	Airline Dispatcher Completion, Cert-P	65
Office Support 2, Cert-P	61	Basic Airport Management, Cert-P	66
Aeronautical Pre-Engineering, AST-2 MRP 1	43-44	Basic Aviation Knowledge, Cert-P.....	66
Art-Associate in Fine Arts Degree, AFA-DTA.....	37-38	Basic Weather Observer, Cert-P.....	67
Art-Advanced Studies, A-Cert.....	46	Helicopter Pilot, AAS	65-66
Art-Ceramics, A-Cert	46	Helicopter, Cert-P.....	66
Art- Design, A-Cert	46	Intermediate Aviation Knowledge, Cert-P.....	67
Art-Interdisciplinary, A-Cert	46	International Flight Planning, Cert-P	65
Art-Photography, A-Cert	47	Professional Pilot, AAS.....	66
Art-Studio, A-Cert	47	Biological Pre-Engineering, AST-2 MRP 2.....	44
Atmospheric Science, AST-2.....	42	Biology, AST-1	39-40
Auto Body Technology, AAS.....	61	Biology Education, AST-1.....	40
Collision Repair, Cert-P.....	61	Broadcasting, A-PP, A-Cert	47-48
Paint and Refinishing, Cert-P.....	61	Business, AB-DTA	36
Automotive Technology, AAS	62	Business Applications Specialist, AAA, Cert.....	67-68
Brakes, Steering and Suspension, Cert-P	62	Business Applications for Small Business, Cert-P	68-69
Electrical Systems, Cert-P	62	Distance Education Preparation, Cert-P	69
Engine Performance, Cert-P	63	Business Management, AAA	69
Heating and Air Conditioning, Cert-P.....	63	Business Foundations, Cert	69
Transmission and Transaxle, Cert-P.....	63	International Business, Cert-P	70
		Management and Supervision, Cert-P	70
		Marketing and Sales, Cert-P	70
		Retail Management, Cert	70

Caregiving, Fundamentals.....	70	Electrical Pre-Engineering, AST-2 MRP 3.....	45
Carpentry Technology—Residential and Light Commercial		Elementary Education, AEE-DTA/MRP	37
Carpentry, AAS, Cert-P	70-71	Engineering, AST-2	42
Residential Light and Commercial Framing 1, Cert-P	72	Engineering Technology, AST-2.....	42
Residential Light and Commercial Framing 2, Cert-P	72	Environmental Science, AST-1	39-40
Residential Concrete Forming and Placement, Cert-P.....	71	Forensic Technology, AAS.....	84-85
Residential Exterior Finish Level 1, Cert-P	71	Forensic and Fingerprint Technology, Cert-P	85
Residential Interior Finish Level 1, Cert-P	71	Gender Studies, A-Cert	51
Residential Interior Finish Level 2, Cert-P.....	72	General Education Development, GED	99
Chemical Pre-Engineering, AST-2 MRP 2	44	General Science Education, AST-1	41
Chemistry, AST-1	39-40	Geographic Information Systems, AAS, Cert-P.....	85-86
Chemistry Education, AST-1	41	Geology, AST 1	39-40
Civil Pre-Engineering, AST-2 MRP 1	43-44	High School Diploma, HS.....	99-100
Communication Studies, A-Cert	48	Hispanic Studies, A-Cert	51
Communication Studies-Advanced, A-Cert	48	Industrial Pre-Engineering, AST-2 MRP 1	43-44
Computer Pre-Engineering, AST-2 MRP 3	45	Information Technology (IT)	
Computer Science, AST-2	42	Computer Support Specialist, AAS-T	51-52
Computer Reporting Technologies		Help Desk Support Technician, Cert-P	86
Captioning Sequence A (Day), AAA	72-73	Information Assurance, AAS-T	52
Captioning Sequence B (Evening), AAA.....	73	Information Assurance Technician, Cert	86-87
Court Reporting Sequence A (Day), AAA	73-74	Network Technician, Cert	87
Court Reporting Sequence B (Evening), AAA.....	74	Networking, AAS-T	52-53
Medical Stenoscryptionist, Cert-P	74-75	Networking Infrastructure, AAS-T.....	53-54
Scotist/Text Editor, Cert-P.....	75	PC Repair Technician, Cert-P	87
Text Entry, Cert-P.....	75	Systems, AAS-T.....	54
Computerized Machining and Manufacturing Technology, AAS, Cert-P.....	75-76	Legal Administrative Assistant, AAA	87-88
Computing and Software Systems, A-PP.....	49	Manufacturing Technology, AAS, Cert-P	88-89
Criminal Justice, AAS.....	76-77	Materials Science Pre-Engineering, AST-2 MRP 1	43-44
Corrections, Cert-P	77	Math Education, AM-DTA.....	38
Law Enforcement, Cert-P.....	77	Math/Science Certificate for Elementary (K8) Teachers, A-Cert	54
Design Drafting Technology, AAS.....	77-78	Mechanical Pre-Engineering, AST-2 MRP 1	43-44
Architectural Drafting Proficiency, Cert-P	80	Medical Office Assistant, AAA	89
Architectural, Structural and Civil Drafting, Cert	80-81	Medical Office Manager, Cert-P	89
Civil Drafting Proficiency, Cert-P.....	81	Medical Transcriptionist, Cert-P.....	90
Construction Design Technology, AAS.....	78-79	Natural Resources, AAS, A-PP	90-91, 55
Drafting Proficiency, Cert-P	81	Community Forestry, Cert-P	93
Manufacturing Technology-CIM, AAS.....	79	Geographic Information Systems Option, AAS	91
Mechanical Design Technology, AAS, AAS-T	80, 54-55	Park Management, AAS	91-92
Mechanical 3-D CAD, Cert-P.....	82	Water Quality, AAS.....	92
Mechanical CAD Proficiency, Cert-P	82	Wildland Fire, AAS	93
Mechanical Drafting, Cert	82	Nursing	
Structural Drafting, Cert-P	83	Practical Nursing, Cert.....	97
Diversity Studies, A-Cert	49	Practical Nursing, Nursing Assistant, Cert-P	96-97
Early Childhood Education, AAA, Cert-P.....	83	Pre-Nursing, APren-DTA/MRP	39
Child Development Associate (CDA) Preparation, Cert-P.....	84	Occupational Therapy Assistant, AAS	94-95
Early Childhood Assistant Teacher, Cert-P	84	Physical Therapist Assistant, AAS.....	95-96
Early Childhood Education and Diversity Studies, AAS-T.....	49-50	Physics, AST- 2.....	42
Instructional Paraeducator, Cert-P	84	Physics Education, AST-2	43-44
Montessori Teaching, Cert-P.....	84	Welding Technology, AAS	97-98
Paraeducator, AAS-T.....	50-51	Basic Arc and Flame, Cert-P	98
Earth Science, AST-1.....	39-40	Intermediate Arc and Flame, Cert-P	98
		Advanced Arc and Flame, Cert-P	98

UNIVERSITY TRANSFER DEGREES AND CERTIFICATES

Green River Community 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 is able to answer most questions regarding transfer of credits. The Transfer Resource Center features a library of catalogs from universities, transfer guides, and information about transfer policies and transfer requirements.

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 Web site when meeting with their Green River advisor.

Many transfer institutions expect students to be “major ready” by the time they apply for admissions. 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, AEE-DTA/MRP, 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 Web site, or call the Career and Advising Center.

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 following guidelines provide specific information about how this degree may be developed:

Degree requirements include:

1. Seventy credits in the technical field as specified by the industry advisory committee

2. Twenty credits of general education courses as follows:
 - a) 5 credits communication – Engl& 101.
 - b) 5 credits quantitative reasoning – College-level math with Intermediate Algebra, Math 097, as a prerequisite.
 - c) 10 credits in social science, humanities, or science – to be selected from the list of courses “generally accepted”.
3. Earning a minimum of 90 credits with a minimum GPA of 2.0.
4. Completing the minimum of 24 credits, including the last quarter of residence at Green River Community College.
5. 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 Community 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, AEE, 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.

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.

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 Community College. 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 Intercollegiate Relations Commission (ICRC) guidelines for direct transfer degrees, an inter-institutional agreement adopted to facilitate student transfer between Washington state community colleges and baccalaureate institutions.

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

Washington

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

Other states

- Oregon State University
- Capella University, California
- University of North Dakota
- University of Phoenix

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

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

1. BASIC SKILLS (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. Communications: (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: (5 credits-explained below)
Courses in this area support the quantitative and symbolic reasoning learning outcome.

1. Completion of Mathematics course for which Intermediate Algebra (Math 097) or higher is a prerequisite.
2. Completion of Engineering 106, &204, &214 **or** &215.
3. Completion of Philosophy &106*
**If option 3 is chosen, the student must, in addition, satisfy one of the following before graduation:*
 - a) COMPASS placement in Math 106 or Math&107 or higher; **or**
 - b) Complete Intermediate Algebra (Math 097) with a grade of 2.0 or higher.

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

- Art &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 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
- Dance** 101, 102, 103, 110, 204
- Drama** &101, 111, 112, 113, 120, 121, 141, 151, 152, 153
- English** &112, &113, &114, 115, 160, 163, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, &254, &255, &256, 257
- French** &121, &122, &123, &221
- German** &121, &122, &123
- Humanities** 100, 110, 133, 142, 160, 186, 190, 191, 224, 272
- Japanese** &121, &122, &123
- Journalism** 101, 150, 151, 152, 254
- Music** 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232
- Philosophy** &101, 102, 103, 104, 105, 110, 112, 114, 115, 160, 200, 206, 210, 220, 236, 238, 240, 243
- Photography** 101, 102, 103, 111
- Spanish** 110, &121, &122, &123, &221, &222, &223

3. SOCIAL SCIENCE (15 credits)

(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, 211
- Anthropology** &100, &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, 108, 120, 123, 190, 200, 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

Social Science 160, 211
Sociology &101, &201, 215, 220, 230, 240, 245, 260

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

LIST A

- Anatomy-Physiology** 100, 102, 103, 104, 210
- Astronomy &100 or &101**
- Biology** &100, 103, 110, 127, &211, &212, &213, &241, &242, &260
- Chemistry** &121, &131, &140, &161, &162, &163, &261, &262, &263
- Environmental Science** 204
- Geology** &101, 200, 206, &208
- Interdisciplinary Science** 101, 102, 103
- Oceanography** &101
- Physics** 105, 110, 111, 112, 150, 151, 152, 208, 201, 202, 203, 225

LIST B

- Anthropology** &205
- Computer Science** &131, 132, &141, 145
- Engineering** &104, 106, 140, &204, &214, &215, &224, &225
- Mathematics** 106, &107, &141, &142, &151, &152, &153, 147, &148, 170, 171, 172, 210, 235, 238, 240, &254, 256
- Philosophy** &106, 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** 101
- Education** &115, 193, &204, &205, 210
- Natural Resources** 100

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

A. Lifetime Fitness/Wellness

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

LIST A: Physical Education 101, 102, 103, 111, 131, 149, 160, 165, 169
One course from List B must be taken if a 2-credit class from List A has been chosen:

LIST B: Physical Education 101, 102, 103, 107, 108, 109, 110, 111, 112, 113, 114, 115, 117, 118, 119, 121, 122, 124, 125, 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, 251, 253

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—must take one)

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 Education 111, 115
Business Management 103
Dance 101
Drama 111, 153

Early Childhood Education 103, 104, 175, 214, 215

Education 210

Education in Early Childhood 220, 221

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. 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.

8. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN BUSINESS DEGREE
Direct Transfer Agreement (AB-DTA)
Minimum of 90 Credits

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

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

1. BASIC SKILLS (20 credits)

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

A. Communications: (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 Skills: (10 credits)

Courses in this area support the quantitative and symbolic reasoning learning outcome.
Mathematics 147 and &148

2. HUMANITIES/FINE ARTS/ENGLISH

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

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

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

Drama &101, **111, 112, 113, 120, 121, 141, 151, 152, 153**

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

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

German &121, &122, &123

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

Japanese &121, &122, &123

Journalism 101, 150, 151, 152, 254

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

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

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

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

3. SOCIAL SCIENCE

(Minimum 20 credits)

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

B. Business Management &201 or **Political Science** &200 (5 credits)

C. Choose 5 credits from the following areas:

American Minority and Ethnic Studies 100, 211

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

Business &101, &201

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

Geography 100, 108, 120, 123, 190, 200, 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, 210, &220, 225

Social Science 160, 211

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

4. NATURAL SCIENCE (Minimum 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, &211, &212, &213, &241, &242, &260**

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

Environmental Science 204

Geology &101, 200, **206, &208**
Interdisciplinary Science **101, 102, 103**
Oceanography &101
Physics **105, 110, 111, 112, 150, 151, 152, 208, 201, 202, 203, 225**

5. ACCOUNTING

(Minimum 15 credits)

Accounting &201, &202, &203

6. FITNESS/WELLNESS (2-3 credits)

Fitness-related classes - must take one: **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 (Minimum 2-3 credits)

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

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

8. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN ELEMENTARY EDUCATION
Direct Transfer Agreement-Major Related Program (AEE-DTA/MRP)
93-94 Credits

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

To earn this degree, students must complete 93-94 quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students are responsible for knowing transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

1. GENERAL REQUIREMENTS
(25 credits)

- A. Communications:** (10 credits)
Courses in this area support the

written communication learning outcome.

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

English 126 **or** 127

- B. Quantitative Skills/Symbolic Reasoning Skills:** (15 credits)
Courses in this area support the quantitative and symbolic reasoning learning outcome.
- Mathematics** 170, 171 **and** 172

2. HUMANITIES/FINE ARTS/ENGLISH
(15 credits) (Minimum 15 credits from three separate areas)

- A. Communication Studies** &220 (5 credits)
- B. English** &112, &113, &114, 165, 180, 190 **or** &236 (5 credits)
- C. Choose 5 credits from the following areas:**
Art &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257
Chinese 111, &121, &122, &123
Dance 101, 102, 103, 110, 204
Drama &101, 111, 112, 113, 120, 121, 141, 151, 152, 153
French &121, &122, &123, &221
German &121, &122, &123
Humanities 100, 110, 133, 142, 160, 186, 190, 191, 224, 272
Japanese &121, &122, &123

Journalism 101, 150, 151, 152, 254

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

Philosophy &101, 102, 103, 104, 105, &106, 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 (Minimum 25 credits) Must select 5 credits from each item A through E.

- A. American Minority and Ethnic Studies** 100 **or** **Anthropology** &206
- B. History** 101, 102, 103, **or** 231
- C. History** &136 **or** &137
- D. Psychology** &100
- E. Sociology** &101, 220 **or** 240; **or** **Social Science** 160

4. NATURAL SCIENCE
(Minimum 15 credits)

- A. Interdisciplinary Science** 101, 102 **and** 103 (15 credits)

5. ADDITIONAL COURSES (6 credits)
Education &205 **and** 270

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

Fitness-related classes – must take one: **Physical Education** 101, 102, 103, 111, 131, 149, 160, 165, 169

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

7. ELECTIVES (Minimum 5 credits)

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

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

8. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN FINE ARTS in ART
Associate in Fine Arts-Direct Transfer Agreement (AFA-DTA)
90-91 Credits

The Associate in Fine Arts degree in Art is generally pursued by students who plan to transfer to a four-year university at the junior level. This degree offers students a broad foundation in advanced education or a career in art. This degree is designed to meet the distribution requirements at universities in Washington state, by fulfilling the general requirements taken by freshman and sophomores.

A portfolio highlighting the student's best work completed at Green River Community College, emphasizing originality, facility, and exploration is highly recommended.

To earn this degree, students must complete a minimum of 90-91 quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 25 percent of credit requirements may be taken on a pass/no-credit basis. Students should be

aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College.

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

1. BASIC SKILLS (15 credits)

- A. Communications:** (10 credits)
English &101 **and** one of the following:
English 126, **or** 127 **or** 128
- B. Quantitative Skills:** (5 credits)
 - 1. Completion of Mathematics course for which Intermediate Algebra (Math 097) **or** higher is a prerequisite.
 - 2. Completion of Engineering 106, &204, &214 **or** &215.

3. Completion of Philosophy &106*

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

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

2. HUMANITIES/FINE ARTS/ENGLISH
(10 credits)

Art 212
Photography 101 **or** 111

3. SOCIAL SCIENCE (10 credits)
(Minimum 10 credits from two separate areas)

American Minority and Ethnic Studies 100, 211
Anthropology &100, &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, 108, 120, 123, 190, 200, 205
History 101, 102, 103, 120, 122, 135, &136, &137, &214, &215, 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
Social Science 160, 211
Sociology &101, &201, 215, 220, 230, 240, 245, 260

4. NATURAL SCIENCE (10 credits)
 Minimum 5 credits 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, &211, &212, &213, &241, &242, &260
Chemistry &121, &131, &140, &161, &162, &163, &261, &262, &263
Environmental Science 204
Geology &101, 200, 206, &208
Interdisciplinary Science 101, 102, 103
Oceanography &101
Physics 105, 110, 111, 112, 150, 151, 152, 208, 201, 202, 203, 225

LIST B

Anthropology &205
Computer Science &131, 132, &141, 145
Engineering &104, 106, 140, &214, &215, &224, &225

Mathematics 106, &107, &141, &142, &151, &152, &153, 147, &148, 170, 171, 172, 210, 235, 238, 240, &254, 256
Philosophy &106, 215

5. SPECIFIC REQUIREMENTS
 (43 credits total)

LIST A (20 credits)

Art 105, 109, 114, 119

LIST B (23 credits)

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

Art 106, 107, 110, 120, 122, 130, 133, 135, 180, 213, 214, 219, 251, 252, 253, 255, 256, 257

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

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

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

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

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

7. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN MATH EDUCATION
Direct Transfer Agreement (AM-DTA)
Minimum of 90 Credits

The Associate in Math Education degree was created to aid students interested in careers as secondary math or science 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 insure that graduates of Green River are as well prepared as their counterparts at four-year colleges. The transferability of these degrees is backed by a statewide articulation agreement with teacher-training universities. In addition, this degree is accepted by baccalaureate institutions in the state of Washington under the Direct Transfer Agreement. It will fulfill the general education requirements at Washington state transfer institutions.

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

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

1. BASIC SKILLS (15 credits)

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

A. Communications: (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: (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. American Minority and Ethnic Studies 100 **or** **Anthropology** &206 (5 credits) can be applied towards Humanities/Fine Arts/English distribution.

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

Chinese 111, &121, &122, &123
Communication Studies &102, &210, 212, 215, &230, 238, 245
Dance 101, **102, 103, 110, 204**
Drama &101, **111, 112, 113, 120, 121, 141, 151, 152, 153**
English &112, &113, &114, 115, 160, 163, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, &254, &255, &256, 257

French &121, &122, &123, &221
German &121, &122, &123
Humanities 100, 110, 133, 142, 160, 186, 190, 191, 224, 272

Japanese &121, &122, &123
Journalism 101, 150, 151, 152, 254
Music 101, 103, 104, &105, 107, 108, 109, 110, **118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**
Philosophy &101, 102, 103, 104, 105, &106, 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

(Minimum 15 credits) No more than 10 credits from any one discipline.

A. Psychology &100

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

C. A minimum of 5 credits from the following:

Anthropology &100, &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

Social Science 160, 211

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

4. NATURAL SCIENCES (15 credits)

No more than 10 credits allowed from any one discipline.

A. Mathematics &152

B. A minimum of 10 credits from the following list with 5 credits from the lab sciences (courses

designated in bold type) must be included.

Astronomy &101

Biology &100, **103, 110, 127, &211, &212, &213, &260**
Chemistry &121, &131, &140, &161, &162, &163, &261, &262, &263
Geology &101, 200, 206, &208
Physics 105, **110, 111, 112, 150, 151, 152, 208, 201, 202, 203, 225**

5. ADDITIONAL COURSES

(25-26 credits)

Education &205

Health Education 190

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

Lifetime Fitness/Wellness

(2-3 credits): **Physical Education** 101, 102, 103, 111, 131, 149, 160, 165, 169

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

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

6. ELECTIVES (4-5 credits)

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

7. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN PRE-NURSING DEGREE

Direct Transfer Agreement-Major Related Program (APrN-DTA/MRP)

Minimum of 91 Credits

The Associate in Pre-Nursing degree is generally 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 the Pre-Nursing Transfer degree include University of Washington-Seattle, Washington State University, Pacific Lutheran University, Northwest University and Walla Walla College. This degree is designed to meet the distribution requirements at universities in Washington state, by fulfilling the general requirements taken by freshman and sophomores.

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

Students are responsible for knowing transfer requirements and policies, and they are urged to consult the catalog

of the institution to which they plan to transfer.

1. GENERAL REQUIREMENTS (15 credits)

A. Communications: (10 credits)
Courses in this area support the written communication learning outcome.
English & 101 and 128

B. Quantitative Skills/Symbolic Reasoning Skills: (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 allowed from any one discipline.

A. Communication Studies & 220

B. A minimum of 10 credits from the following: No more than 5 credits in foreign language at the 100 level. No more than 5 credits in performance/skills courses (all courses in bold type**).**
Art & 100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 212, 213, 214, 219, 251, 252, 253, 255, 256, 257

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

Dance 101, 102, 103, 110, 204
Drama & 101, 111, 112, 113, 120, 121, 141, 151, 152, 153
English & 112, & 113, & 114, 115, 160, 163, 165, 168, 180, 181, 183, 185, 187, 190, & 220, & 226, & 227, & 228, & 236, & 237, 239, & 244, & 245, & 246, 247, 248, & 254, & 255, & 256, 257
French & 121, & 122, & 123, & 221
German & 121, & 122, & 123
Humanities 100, 110, 133, 142, 160, 186, 190, 191, 224, 272
Japanese & 121, & 122, & 123
Journalism 101, 150, 151, 152, 254

Music 101, 103, 104, & 105, 107, 108, 109, 110, 118, 119, 120, & 121, & 122, & 123, 124, 127, 128, 129, 130.1, 130.2, 130.3, & 131, & 132, & 133, 140, 141, 142, 218, 219, 220, & 221, & 222, 227, 228, 229, 230.1, 230.2, 230.3, & 231, & 232
Philosophy & 101, 102, 103, 104, 105, & 106, 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, 215, 220, 240, 245, 260

4. NATURAL SCIENCE (36 credits with at least 25 credits lab based)

A. Biology & 211 and & 260

B. Biology & 241 and & 242

C. Chemistry & 121 and & 131

D. Nutrition & 101

5. ADDITIONAL CREDITS:

Select 10 credits from the following:

American Minority and Ethnic Studies 100

Anatomy-Physiology 100

Anthropology & 205, & 235

Communication Studies 238

Mathematics 147

6. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN BIOLOGY, ENVIRONMENTAL SCIENCE, CHEMISTRY, GEOLOGY, OR EARTH SCIENCE

Associate in Science Transfer Degree - Option 1 (AST-1)

Minimum of 90 Credits

The Associate in Science Transfer degree Option 1 encompasses 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 a minimum of 90-quarter credits in courses numbered 100 or above (from approved distribution list below) and meet specific distribution requirements. No more than 20 credits may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy

the requirements in their major field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students should include some 200-level classes in their course of study. Students are responsible for knowing the transfer requirements and policies, and they are urged to consult the catalog of the university to which they plan to transfer.

1. GENERAL REQUIREMENTS (20 credits)

A. Communications: (5 credits)
Courses in this area support the written communication learning outcome.

English & 101 (5 credits)
After consultation with a science advisor, five additional credits are recommended from the following:
English 126 or 127 or 128

B. Quantitative Skills: (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 of humanities/fine arts/English and social science with at least five credits taken from each. Three different subjects required.

A. Humanities/Fine Arts/English

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

Art & 100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115,

119, 120, 122, 130, 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

Dance 101, 102, 103, 110, 204
Drama & 101, 111, 112, 113, 120, 121, 141, 151, 152, 153
English & 112, & 113, & 114, 115, 160, 163, 165, 168, 180, 181, 183, 185, 187, 190, & 220, & 226, & 227, & 228, & 236, & 237, 239, & 244, & 245, & 246, 247, 248, & 254, & 255, & 256, 257
French & 121, & 122, & 123, & 221
German & 121, & 122, & 123
Humanities 100, 110, 133, 142, 160, 186, 190, 191, 224, 272
Japanese & 121, & 122, & 123
Journalism 101, 150, 151, 152, 254

Music 101, 103, 104, &105, 107, 108, 109, 110, **118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**
Philosophy &101, 102, 103, 104, 105, &106, 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 of 5 credits from the following:
American Minority and Ethnic Studies 100, 211
Anthropology &100, &205, &206, &207, &210, 211, &216, &234, &235, &236, 273
Business Management &101, &201
Criminal Justice &101, &105, &110, &240
Economics 100, 101, &202, &201
Geography 100, 108, 120, 123, 190, 200, 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
Social Science 160, 211
Sociology &101, &201, 215, 220, 230, 240, 245, 260

3. SPECIFIC REQUIREMENTS

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

- A. Chemistry** &161, &162, **and** &163 (18 credits)
(Chemistry &261, &262 **and** &263 may be substituted with prior consultation with a science/engineering advisor.)
B. Select 15-18 credits to be taken in sequence order from the following:
 1. Biology &211, &212 **and** &213 **or**

2. Physics 110, 111 **and** 112 **or**
 3. Physics 201, 202 **and** 203

- C. Natural Science:** Select 14-17 credits from the following list after consultation with a science advisor.
Anatomy and Physiology 210
Biology &211, &212, &213, &241, &242, &260
Chemistry &161, &162, &163, &261, &262, &263
Engineering 106, &214, &224
Environmental Science 204
Geology &101, 206
Mathematics 106, &141, &142, &153, 238, 240, &254, 256
Philosophy &106, 215
Physics 110, 111, 112, 150, 151, 152, 201, 202, 203, 208, 221, 225

4. LIFETIME FITNESS/WELLNESS

(2-3 credits) Select one course from the following:

- Physical Education** 101, 102, 103, 111, 131, 149, 160, 165, 169
Degree exceptions for fitness/wellness courses must include medical documentation submitted to Disability Support Services (DSS) and documentation to the Degree Exception Committee.

5. ELECTIVES (2-3 credits)

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

English 126, 127 or 128 may be used.

6. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN BIOLOGY EDUCATION

Associate in Science Transfer Degree - Option 1 (AST-1) 104-105 Credits

The Associate in Science Transfer degree Option 1 in Biology Education encompasses 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 rather 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 higher (from approved distribution list below) and meet specific distribution requirements. No more than 20 credits may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major

field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students should include some 200-level classes in your course of study. Students are responsible for knowing the transfer requirements and policies, and they are urged to consult the catalog of the institution for which they plan to transfer.

1. BASIC SKILLS (15 credits)

- A. Communications:** (5 credits)
Courses in this area support the written communication learning outcome.
English &101
B. Quantitative Skills: (10 credits)
Courses in this area support the quantitative and symbolic reasoning learning outcome.
Mathematics &151 **and** &152

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

- A. Communication Studies** &220

B. Psychology &100

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

American Minority and Ethnic Studies 100
Anthropology &206

3. SPECIFIC PRE-MAJOR REQUIREMENTS (59 credits)

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

- A. Chemistry** (&161, &162 **and** &163) **and** (&261, &262 **and** &263)
B. Biology &211, &212 percent &213
C. Mathematics 256

4. ADDITIONAL COURSES

(15-16 credits)
Education &205
English 126, 127 **or** 128
Health Education 190
Lifetime Fitness/Wellness (2-3 credits):
Physical Education 101, 102, 103, 111, 131, 149, 160, 165, 169

Although it is not a requirement for this degree, it is recommended that students take additional coursework to better prepare them for transfer into this educational field.

Recommended: (15 credits)

Physics: The sequence is 110, 111, **and** 112 **or**

Physics: The sequence is 150, 151, **and** 152 **or**

Physics: The sequence is 201, 202, **and** 203

5. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN CHEMISTRY EDUCATION
Associate in Science Transfer Degree - Option 1 (AST-1)
101-102 Credits

The Associate in Science Transfer degree Option 1 in Chemistry Education encompasses 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 rather to prepare prospective transfer science students to enter the state universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 101-102 quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 20 credits may be taken on a pass/no credit basis. Students should be aware

that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students should include some 200-level classes in their course of study. Students are responsible for knowing the transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

1. **BASIC SKILLS** (15 credits)
 - A. **Communications** (5 credits)
Courses in this area support the written communication learning outcome.
English & 101
 - B. **Quantitative Skills** (10 credits)
Courses in this area support the quantitative and symbolic reasoning learning outcome.
Mathematics & 151 and & 152

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

- A. **Communication Studies & 220**
- B. **Psychology & 100**
- C. A minimum of 5 credits from the following:
American Minority and Ethnic Studies 100
Anthropology & 206

3. SPECIFIC PRE-MAJOR REQUIREMENTS (56 credits)

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

- A. **Chemistry** (&161, &162 and &163) and (&261, &262 and &263)
- B. **Physics:** The sequence is 110, 111, and 112 or
Physics: The sequence is 150, 151, and 152 or
Physics: The sequence is 201, 202, and 203
- C. **Mathematics** 147 or &153

4. ADDITIONAL COURSES (15-16 credits)

Education & 205
English 126, 127 or 128
Health Education 190
Lifetime Fitness/Wellness (2-3 credits):
Physical Education 101, 102, 103, 111, 131, 149, 160, 165, 169

5. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN GENERAL SCIENCE EDUCATION
Associate in Science Transfer Degree - Option 1 (AST-1)
93-97 Credits

The Associate in Science Transfer degree Option 1 in General Science Education encompasses 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 gives 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 universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 93-97 quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 20 credits may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not

satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students should include some 200-level classes in their course of study. Students are responsible for knowing the transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

1. **BASIC SKILLS** (15 credits)
 - A. **Communications:** (5 credits)
Courses in this area support the written communication learning outcome.
English & 101
 - B. **Quantitative Skills:** (10 credits)
Courses in this area support the quantitative and symbolic reasoning learning outcome.
Mathematics & 151 and & 152

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

- A. **Communication Studies & 220**
- B. **Psychology & 100**
- C. A minimum of 5 credits from the following:
American Minority and Ethnic Studies 100
Anthropology & 206

3. SPECIFIC PRE-MAJOR REQUIREMENTS (48-51 credits)

- A. **Mathematics** 256
- B. Completion of a minimum of three sequences from the following four subject areas. It is strongly suggested that students beginning their science sequence complete it at the originating college.
 1. **Chemistry:** the sequence is &161, &162, and &163
 2. **Biology:** the sequence is &211, &212, and &213
 3. **Physics:** the sequence is 110, 111, and 112 or
Physics: the sequence is 150,

- 151, and 152 or
Physics: the sequence is 201, 202, and 203
4. **Geology:** the sequence is &101 and 206

4. ADDITIONAL COURSES (15-16 credits)

Education & 205
English 126, 127 or 128
Health Education 190
Lifetime Fitness/Wellness (2-3 credits):
Physical Education 101, 102, 103, 111, 131, 149, 160, 165, 169

5. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN ENGINEERING, ENGINEERING TECHNOLOGY, COMPUTER SCIENCE, PHYSICS, or ATMOSPHERIC SCIENCES
Associate in Science Transfer Degree - Option 2 (AST-2)
Minimum of 90 Credits

This Associate in Science Transfer degree Option 2 encompasses 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 gives 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 universities with junior standing, not only in credits but also with major/program preparation.

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 20 credits may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students should include some 200-level classes in their course of study. Students are responsible for knowing the transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

1. GENERAL REQUIREMENTS
(20 credits)

A. Communications (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 (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 of humanities/fine arts/English and social science with at least five credits taken from each. Three different subjects required.

A. Humanities/Fine Arts/English:

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

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

Dance 101, **102, 103, 110, 204**
Drama & 101, **111, 112, 113, 120, 121, 141, 151, 152, 153**

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

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

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

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

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

Philosophy & 101, 102, 103, 104, 105, & 106, 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 of 5 credits from the following:

American Minority and Ethnic Studies 100, 211

Anthropology & 100, & 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, 108, 120, 123, 190, 200, 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

Social Science 160, 211

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

3. SPECIFIC REQUIREMENTS

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

A. Physics 201, 202 **and** 203 (15 credits)

(**Physics** 110, 111, **and** 112 may be substituted with prior consultation with a science/engineering advisor.)

B. Select 6 credits to be taken from the following:

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

C. Select 5 credits from the

following:

Computer Science & 131, 132, & 141, 145

D. Natural Science: Select

24 credits from the following list after consultation with a science/engineering advisor.

Anatomy/Physiology 210

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

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

Computer Science & 131, 132, & 141, 145

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

Environmental Science 204
Geology & 101, 206

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

Philosophy & 106, 215

Physics 110, 111, 112, 150, 151, 152, 201, 202, 203, 208, 225

4. LIFETIME FITNESS/ WELLNESS

(2-3 credits) Select one course from the following:

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

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

5. ELECTIVES (2-3 credits)

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

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

6. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN PHYSICS EDUCATION
Associate in Science Transfer Degree - Option 2 (AST-2)
97-98 Credits

The Associate in Science Transfer degree Option 2 in Physics Education encompasses 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 gives 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 rather to prepare prospective transfer science students to enter the universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 97-98 quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific

distribution requirements. No more than 20 credits may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students should include some 200-level classes in your course of study. Students are responsible for knowing the transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

1. **BASIC SKILLS** (15 credits)
 - A. **Communications:** (5 credits)
Courses in this area support the written communication learning outcome.

English &101
B. Quantitative Skills: (10 credits)
Courses in this area support the quantitative and symbolic reasoning learning outcome.

- Mathematics &151 and &152**
2. **HUMANITIES/FINE ARTS/ENGLISH and SOCIAL SCIENCE** (15 credits)
 - A. **Communication Studies &220**
 - B. **Psychology &100**
 - C. A minimum of 5 credits from the following:
American Minority and Ethnic Studies 100
Anthropology &206

3. **SPECIFIC PRE-MAJOR REQUIREMENTS** (52 credits):
 It is strongly suggested that students beginning their science sequence complete it at the originating college.
 - A. **Physics 201, 202, and 203**
 - B. **Chemistry &161 and &163**
 - C. **Mathematics &153, 238, 240, and &254**

D. Computer Science &131

4. **ADDITIONAL COURSES** (15-16 credits)
Education &205
English 126, 127 or 128
Health Education 190
Lifetime Fitness/Wellness (2-3 credits):
Physical Education 101, 102, 103, 111, 131, 149, 160, 165, 169

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

ASSOCIATE IN MECHANICAL, CIVIL, AERONAUTICAL, INDUSTRIAL or MATERIALS SCIENCE PRE-ENGINEERING
Associate in Science Transfer Degree - Option 2 / Major Related Program (AST-2/MRP 1)
112 Credits

The Associate in Science Transfer degree option 2 MRP encompasses 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 gives 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 universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 112-quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 20 credits may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students should include some 200-level classes in your course of study. Students are responsible for knowing the transfer requirements and

policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

1. **GENERAL REQUIREMENTS** (35 credits)
 - A. **Communications:** (5 credits)
Courses in this area support the written communication learning outcome.
English &101
 - B. **Quantitative Skills:** (30 credits)
Courses in this area support the quantitative and symbolic reasoning learning outcome.
Mathematics &151, &152, &153, 238, 240 and &254
2. **HUMANITIES/FINE ARTS/ENGLISH and SOCIAL SCIENCE** (15 credits)
 (Select 15 credits of humanities/fine arts/English and social science with at least five credits taken from each. Three different subjects required.)
 - A. **Humanities/Fine Arts/English:**
 A minimum of 5 credits from the following: No more than 5 credits allowed in any one discipline.
No more than 5 credits in foreign language at the 100 level.
No more than 5 credits in performance/skills courses (all courses in bold type) can be applied towards Humanities/ Fine Arts/ English distribution.

- Art &100, 105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 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
Dance 101, 102, 103, 110, 204
Drama &101, 111, 112, 113, 120, 121, 141, 151, 152, 153
English &112, &113, &114, 115, 160, 163, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, &254, &255, &256, 257
French &121, &122, &123, &221
German &121, &122, &123
Humanities 100, 110, 133, 142, 160, 186, 190, 191, 224, 272
Japanese &121, &122, &123
Journalism 101, 150, 151, 152, 254
Music 101, 103, 104, &105, 107, 108, 109, 110, 118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232

- Philosophy &101, 102, 103, 104, 105, &106, 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, 211
Anthropology &100, &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, 108, 120, 123, 190, 200, 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
Social Science 160, 211
Sociology &101, &201, 215, 220, 230, 240, 245, 260

3. SPECIFIC REQUIREMENTS

(62 credits)

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

A. Physics 201, 202, **and** 203
(15 credits)

B. Chemistry &161 **and** &162
(12 credits)

C. Select 5 credits from the following:
Computer Science &131, 132, &141, 145

D. Select 20 credits from the following:
Engineering 100, 106, &214, &215, &225

E. Select 10 credits from the following list after consultation with a science/engineering advisor.

English 128
Engineering &104, &114, 140, &204, &224

4. TRANSFERABILITY OF CREDITS

Green River Community College is fully accredited. Academic courses will

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

ASSOCIATE IN BIOLOGICAL or CHEMICAL PRE-ENGINEERING**Associate in Science Transfer Degree - Option 2 / Major Related Program (AST-2/MRP 2)
101-102 Credits**

The Associate in Science Transfer degree Option 2 MRP in Biological or Chemical pre-Engineering encompasses 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 gives 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 universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 101-102 quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 20 credits may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students should include some 200-level classes in your course of study. Students are responsible for knowing the transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

1. GENERAL REQUIREMENTS

(30 credits)

A. Communications: (5 credits)
Courses in this area support the written Communication learning outcome.
English &101

B. Quantitative Skills: (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)
(Select 15 credits of humanities/fine arts/English and social science with at least five credits taken from each. Three different subjects required.)

A. Humanities/Fine Arts/English:
A minimum of 5 credits from the following: 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.
No more than 5 credits in foreign language at the 100 level.
Art &100, **105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 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
Dance 101, **102, 103, 110, 204**
Drama &101, **111, 112, 113, 120, 121, 141, 151, 152, 153**

English &112, &113, &114, 115, 160, 163, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, &254, &255, &256, 257
French &121, &122, &123, &221
German &121, &122, &123
Humanities 100, 110, 133, 142, 160, 186, 190, 191, 224, 272
Japanese &121, &122, &123
Journalism 101, 150, 151, 152, 254
Music 101, 103, 104, &105, 107, 108, 109, 110, **118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**
Philosophy &101, 102, 103, 104, 105, &106, 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, 211
Anthropology &100, &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, 108, 120, 123, 190, 200, 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
Social Science 160, 211
Sociology &101, &201, 215, 220, 230, 240, 245, 260

3. SPECIFIC REQUIREMENTS

(56-57 credits)

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

A. Physics 201, 202, **and** 203
(15 credits)

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

C. Engineering 100 (2 credits)

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

E. Select at least 10 credits from the following list after consultation with an engineering advisor.

Biology &100**Chemistry** &263***Computer Science** &131, 132, &141, 145**Engineering** 100, &204, &224
English 128**Mathematics** 240

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

4. TRANSFERABILITY OF CREDITS

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

ASSOCIATE IN COMPUTER or ELECTRICAL PRE-ENGINEERING
Associate in Science Transfer Degree - Option 2 / Major Related Program (AST-2/MRP 3)
96 Credits

The Associate in Science Transfer degree Option 2 MRP in Computer or Electrical pre-Engineering encompasses 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 gives 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 universities with junior standing, not only in credits but also with major/program preparation.

To earn this degree, students must complete 96-quarter credits in courses numbered 100 or higher (from approved distribution list below) and meet specific distribution requirements. No more than 20 credits may be taken on a pass/no credit basis. Students should be aware that courses with "Pass" grades may not satisfy the requirements in their major field. Students must attain a cumulative GPA of 2.0, and earn a minimum of 24 credits, including the last quarter, in residence at Green River Community College. Students should include some 200-level classes in your course of study. Students are responsible for knowing the transfer requirements and policies, and they are urged to consult the catalog of the institution to which they plan to transfer.

1. GENERAL REQUIREMENTS
(30 credits)

- A. Communications:** (5 credits)
Courses in this area support the written communication learning outcome.

- English** &101 (5 credits)
- B. Quantitative Skills:** (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)
(Select 15 credits of humanities/fine arts/English and social science with at least five credits taken from each. Three different subjects required.)

- A. Humanities/Fine Arts/English:**
A minimum of 5 credits from the following: No more than 5 credits in foreign language at the 100 level. No more than 5 credits allowed in any one discipline. No more than 5 credits in performance/skills courses (all courses in bold type) can be applied towards Humanities/Fine Arts/English distribution.
Art &100, **105, 106, 107, 109, 110, 111, 112, 113, 114, 115, 119, 120, 122, 130, 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
Dance 101, 102, 103, 110, 204
Drama &101, **111, 112, 113, 120, 121, 141, 151, 152, 153**
English &112, &113, &114, 115, 160, 163, 165, 168, 180, 181, 183, 185, 187, 190, &220, &226, &227, &228, &236, &237, 239, &244, &245, &246, 247, 248, &254, &255, &256, 257
French &121, &122, &123, &221

- German** &121, &122, &123
- Humanities** 100, 110, 133, 142, 160, 186, 190, 191, 224, 272
- Japanese** &121, &122, &123
- Journalism** 101, 150, 151, 152, 254
- Music** 101, 103, 104, &105, 107, 108, 109, 110, **118, 119, 120, &121, &122, &123, 124, 127, 128, 129, 130.1, 130.2, 130.3, &131, &132, &133, 140, 141, 142, 218, 219, 220, &221, &222, 227, 228, 229, 230.1, 230.2, 230.3, &231, &232**
- Philosophy** &101, 102, 103, 104, 105, &106, 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, 211
Anthropology &100, &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, 108, 120, 123, 190, 200, 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
- Social Science** 160, 211
- Sociology** &101, &201, 215, 220, 230, 240, 245, 260

3. SPECIFIC REQUIREMENTS
(51 credits)

- It is strongly suggested that students beginning their science sequence complete it at the originating college.
- A. Physics** 201, 202, **and** 203 (15 credits)
 - B. Chemistry** &161 (6 credits)
 - C. Select 10 credits:**
Computer Science &131 **and** 132 **or** &141 **and** 145
 - D. Select 10 credits:**
Engineering 100, 106, &204
 - E. *Select 10 credits:**
English 128
Engineering &104, &214, &224

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

4. TRANSFERABILITY OF CREDITS

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

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 veteran's funding, unless the certificate or courses is applied towards an Associate in Arts 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
Required Courses:		
* Art 180	The Artist's Portfolio	3
* Art 199 or	Independent Study-Design or	
* Art 275, 276, 277 or	Independent Study-Ceramics or	(1-5)
* Art 294, 295, 296 or	Independent Study-Painting or	(1-5)
* Art 297, 298, 299 or	Independent Study-Drawing or	(1-5)
* Photo 197	Independent Study-Photography	(1-5) 3-5

Select a minimum of 25 credits from the following list of courses.

Art 106	Intermediate Drawing	5
Art 107	Advanced Drawing	5
Art 110	Intermediate Design and Color	5
Art 219	Advanced 3-Dimensional Design	5
Art 255	Advanced Painting 1	5
Art 256	Advanced Painting 2	5
Art 251	Ceramics 1	5
Art 252	Ceramics 2	5
Photo 103	Advanced 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

* Course transfers as elective only. Consult with 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 veteran's funding, unless the certificate or courses is applied towards an Associate in Arts or Associate Development degree.

Contact: Paul Metivier, ext. 4766
 pmetivier@greenriver.edu

Dept./No.	Course Title	Credits
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's 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	Beginning Digital Photography	5

All art history classes are recommended:

Art 212, 213, 214	History of Art 1-3	5 ea
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* Course transfers as elective only. Consult with 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 veteran's funding, unless the certificate or courses is applied towards an Associate in Arts or Associate Development degree.

Contact: Gary Oliveira, ext. 4663
 goliveira@greenriver.edu

Dept./No.	Course Title	Credits
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	The Visual Concept 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 transfers as elective only. Consult with transfer institution.

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 veteran's funding, unless the certificate or courses is applied towards an Associate in Arts 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:

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
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* Course transfers as elective only. Consult with 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 veteran's funding, unless the certificate or courses is applied towards an Associate in Arts 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
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* Course transfers as elective only. Consult with transfer institution.

Art – Studio
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 veteran's funding, unless the certificate or courses is applied towards an Associate in Arts or Associate Development degree.

Contact: Cindy Small, ext. 4203
csmall@grenriver.edu

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

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

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

All art history classes are recommended:

Art 212, 213, 214	History of Art 1-3	5 ea
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* Course transfers as elective only. Consult with transfer institution.

Broadcasting
Associate Pre-Professional Degree
90 Credits

Broadcasting students may earn a one-year certificate in Broadcasting or a two-year Associate Pre-Professional degree.

Contact: Tom Evans Krause, ext. 2190
tkrause@greenriver.edu

Dept./No.	Course Title	Credits
Cmst& 102	Introduction to Mass Media	5
Cmst& 220	Public Speaking	5
Engl& 101	English Composition I	5
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Sciences 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 254	Advanced Radio Production	3
* Journ 255	Marketing the Broadcast Media	3
Math	Any Math course 100 or higher	5
Lifetime/Fitness/		
Wellness	Include one fitness-related course	2-3
Humanities/Fine Arts	One additional course (not Cmst or Journ)	1-5
Math/Natural Science	Three separate areas including one lab	15
Social Science	Three separate areas	15
Electives	(See Recommended Electives below)	4

A minimum of 10 total credits to be taken from the following group of Journalism classes:

- 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 120 or | Digital Radio Laboratory or | |
| * Journ 205 | Radio Management | (1-5) |
| * Journ 111 or | Radio Laboratory 2 or | |
| * Journ 121 or | Digital Radio Laboratory 2 or | |
| * Journ 206 | Radio Workshop | (1-5) |

* Journ 112 or	Radio Laboratory 3 or	
* Journ 122 or	Digital Radio Laboratory 3 or	
* Journ 207	Advanced Radio Workshop	(1-5)

Recommended Electives:

Cmst 215	Critical Analysis of Media	5
* Journ 156	Broadcast and New Media Announcing	3
* Journ 177-179 and	Journalism Work Experience 1-3 and	
* Coop 171	Work Experience Seminar	1-13
* Journ 251-253	Journalism Internship	3-9

* Course transfers as elective only. Consult with transfer institution.

**Broadcasting
Academic Certificate
34-44 Credits**

Contact: Tom Evans Krause, ext. 2190
tkrause@greenriver.edu

Dept./No.	Course Title	Credits
Engl& 101	English Composition 1	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 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

A minimum of 10 total credits to be taken from the following group of Journalism classes:

- 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 120 or	Digital Radio Laboratory or	
* Journ 205	Radio Management	(1-5)
* Journ 111 or	Radio Laboratory 2 or	
* Journ 121 or	Digital Radio Laboratory 2 or	
* Journ 206	Radio Workshop	(1-5)
* Journ 112 or	Radio Laboratory 3 or	
* Journ 122 or	Digital Radio Laboratory 3 or	
* Journ 207	Advanced Radio Workshop	(1-5)

Electives: Students must choose 1-6 credits from the following courses to total 34-44 credits:

Cmst& 102	Introduction to Mass Media	5
Cmst& 220	Public Speaking	5
* Journ 156	Broadcast and New Media Announcing	3
* Journ 177-179 and	Journalism Work Experience 1-3 and	1-12
* Coop 171	Work Experience Seminar	1
* Journ 251-253	Journalism Internship	3-9

* Course transfers as elective only. Consult with transfer institution.

**Communication Studies
Academic Certificate
20 Credits**

Courses used to fulfill requirements in one section may not be used to fulfill requirements in another section.

Contact: Kathleen Loucks, ext. 4641 Will Scott, ext. 4281
kloucks@greenriver.edu wscott@greenriver.edu

Kate Katims, ext. 4283
kkatims@greenriver.edu

Dept./No.	Course Title	Credits
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Required: 10 credits

Cmst& 220	Public Speaking	5
Cmst& 210 or	Interpersonal Communication or	
Cmst& 230	Small Group Communication	5

Select a minimum of 10 credits from the following list of courses.

* 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 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 transfers as elective only. Consult with transfer institution.

**Advanced Communication Studies
Academic Certificate
30 Credits**

Courses used to fulfill requirements in one section may not be used to fulfill requirements in another section.

Contact: Kathleen Loucks, ext. 4641 Will Scott, ext. 4281
kloucks@greenriver.edu wscott@greenriver.edu

Kate Katims, ext. 4283
kkatims@greenriver.edu

Dept./No.	Course Title	Credits
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Required: 10 credits

Cmst& 220	Public Speaking	5
Cmst& 210 or	Interpersonal Communication or	
Cmst& 230	Small Group Discussion	5

Select a minimum of 10 credits from the following courses:

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
Cmst 238	Intercultural Communication	5
Cmst 245	Argumentation	5

Select a minimum of 10 credits from the following courses:

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 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 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 transfers as elective only. Consult with transfer institution.

Computing and Software Systems Associate Pre-Professional Degree 90 Credits

This Associate Pre-Professional degree program is designed to prepare students and meet all prerequisites for entrance to the University of Washington-Tacoma. Students are expected to have completed the following curricula prerequisites during their high school years: Algebra I and II (2 years); Geometry (1 year); Trigonometry (1 year); Physics with lab (1 year); Chemistry or Biology (1 year); Composition/Literature (4 years); Foreign Language (2 years); and be able to demonstrate fluency in computing technologies.

Students exiting this program possess a unique combination of skills and knowledge that will make them well prepared for entry-level positions in the public or private sectors. Students take courses in computer languages, computer architecture, database, data communications and systems analysis and design. Students acquire the necessary computer programming skills for positions concerned with the utilization of the computer in the analysis and solution of scientific, engineering, business and other technical problems.

Contact: Janet Ash, ext 4614 Alan Carter, ext 4630
jash@greenriver.edu acarter@greenriver.edu

Dept./No.	Course Title	Credits
Core Requirements:		
Bus& 101	Introduction to Business	5
Cmst& 220	Public Speaking	5
CS& 131	Computer Science I C++	5
CS 132	C++ Data Structures	5
CS& 141	Computer Science I Java	5
CS 145	Java 2	5
Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/Business	5
IT 101	Introduction to Computer Science	5
IT 102	Programming 1 for Information Professionals	5
IT 190	Linux Administration	5
IT 201	Fundamental Database Design	5
IT 220	Programming II for Information Professionals	5
IT 252	System Administrator for SQL Server	5
Math& 151 or	Calculus I or	
Math 256	Statistics for Business and Social Science	5
Phil& 101	Introduction to Philosophy	5
Phys 110	Introduction to College Physics	5
Psyc& 100 or	General Psychology or	
Soc& 101	Introduction to Sociology	5

Note: Certain courses listed above have additional prerequisites. Consult GRCC catalog for more information or contact the program advisor.

Diversity Studies Academic Certificate 20 Credits

Examining diversity 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.

Students must have an accumulative GPA of 2.0 for the classes chosen for the certificate; only one class can have a pass/fail designation.

Students seeking the Gender Studies certificate may use no more than two courses from that certificate to fulfill the Diversity Studies certificate requirements.

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

Contact: Louise Hull, ext 4386
lhull@greenriver.edu

Vik Bahl, ext 4223
vbahl@greenriver.edu

Dept./No.	Course Title	Credits
Required Course:		
Ames 100 or Phil 238	Introduction to Ethnic and Minority Studies or Introduction to the Philosophy of Human Rights	5
Select from the following courses to total 20 credits:		
Anth& 206	Cultural Anthropology	(5)
Anth& 210	Indians of North America	(5)
Drma 121	Contemporary American Movies	(5)
Engl 160	Literature by and About Women	(5)
Engl 163	The Poetics of Rap and Hip Hop	(5)
Engl 247	American Ethnic Literature	(5)
Engl 248	African American Literature	(5)
Engl 257	Non-Western World Literature	(5)
Geog 108	Introduction to 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 224	Women and World Religions	(5)
Soc 220	Sex and Gender in Society	(5)

Early Childhood Education and Diversity Studies Associate in Applied Science – Transfer (AAS-T) 90-91 Credits

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

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

Basic Requirements:

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

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

Leslie Kessler, ext. 4555
lkessler@greenriver.edu

Dept./No. Credits	Course Title	
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Basic Skills Requirement:		15
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# Engl& 101	English Composition I	(5)
# Cmst& 220	Public Speaking	(5)
# Math	Completion of Math course for which Math 097 or higher is a prerequisite	(5)

Lab Science Requirement: Select 5-6 credits from the following:		5-6
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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	(5)
Chem& 161	General Chemistry with Lab I	(6)
Chem& 162	General Chemistry with Lab II	(6)
Chem& 163	General Chemistry with Lab III	(6)
Chem& 261	Organic Chemistry with Lab I	(6)
Chem& 262	Organic Chemistry with Lab II	(6)
Chem& 263	Organic Chemistry with Lab III	(6)
Geol &101	Introduction to Physical Geology	(5)
Geol 206	Earth History	(5)
Geol& 208	Geology of Pacific Northwest	(5)
Phys 105	Concepts of the Physical World	(5)
Phys 110	Introduction to College Physics	(5)
Phys 111	College Physics 2	(5)
Phys 112	College Physics 3	(5)
Phys 150	Physics for the Life Sciences 1	(5)
Phys 151	Physics for the Life Sciences 2	(5)
Phys 152	Physics for the Life Sciences 3	(5)
Phys 201	Physics/Science/Engineering 1	(5)
Phys 202	Physics/Science/Engineering 2	(5)
Phys 203	Physics/Science/Engineering 3	(5)

Diversity Studies Requirements		25
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# Ames 100 or	Introduction to Ethnic and Minority Studies or	(5)
Phil 238	Introduction to the Philosophy of Human Rights	(5)

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

Anth& 206	Cultural Anthropology	(5)
Anth& 210	Indians of North America	(5)
Drma 121	Contemporary American Movies	(5)
Engl 160	Literature By and About Women	(5)
Engl 163	The Poetics of Rap and Hip Hop	(5)
Engl 247	American Ethnic Literature	(5)
Engl 248	African-American Literature	(5)
Engl 257	Non-Western World Literature	(5)
Geog 108	Introduction to Human Geography	(5)
Hist 103	The Modern World	(5)
Hist 224	African-American History	(5)
Hist& 215	Women in US History	(5)
Hist 226	Asian-American History	(5)
Hist 228	Latinos in the US	(5)
Hist 233	History of Latin America	(5)
Human 224	Women and World Religions	(5)
Soc 220	Sex and Gender in Society	(5)

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

- Early Childhood Education, Certificate of Proficiency, 44 credits (see page 83)
- Early Childhood Education, Assistant Teacher, Certificate of Proficiency, 27-28 credits (see page 84)
- Early Childhood Education, Child Development Associate (CDA), Certificate of Proficiency, 20 credits (see page 84)

Early Childhood Education, Instructional Paraeducator, Certificate of Proficiency, 44 credits (see page 84)

Early Childhood Education, Montessori Teaching, Certificate of Proficiency, 34 credits (see page 84)

Satisfies general education requirements.

Early Childhood Education Paraeducator Associate in Applied Science-Transfer (AAS-T) 94-96 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. *Students who wish to explore other transfer options in Teacher Education should contact Project TEACH, a pre-service teacher preparation program designed to provide future teachers with a seamless pathway to a teaching career through partnership with local schools. Project TEACH provides classes designed specifically for future K-12 teachers.

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

Dept./No.	Course Title	Credits
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Basic Skills Requirements:		
# Engl& 101	English Composition I	5

# Select one 5-credit course from the following:		5
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Math& 107	Math in Society	(5)
Math& 141	Precalculus 1	(5)
Math 147	Finite Math for Business and Social Science	(5)
Math& 148	Business Calculus	(5)
Math 170	Number Theory for Elementary Teachers	(5)

Humanities/Fine Arts:		
Art& 100	Art Appreciation	5

# Cmst& 210 or	Interpersonal Communication or	
Cmst& 220	Public Speaking	5
Musc& 105	Music Appreciation	5

Social Science:		
Anth& 100 or	Survey of Anthropology or	
Anth& 206	Cultural Anthropology	5
Psyc& 100	General Psychology	5

Natural Science:		
Biol& 100 or	Survey of Biology or	
Geol& 101	Introduction to Physical Geology	5

Health Education:		
HI Ed 150	Total Wellness	5

Program Core:		
ECE 101 or	Introduction to Early Childhood Education or	
Educ& 205	Introduction to Education with Field Experience	5

Edec 102	Computers in Education	3
Edec 130	Guidance and Discipline	3
Edec 140	Health, Safety and Nutrition	3
Edec 190	The Role of the Paraeducator	2
Edec 194	Special Topics: School Orientation	1
Edec 195	Special Topics: Alcohol and Drug Awareness	1
Edec 196	Special Topics: Test Administration and Scoring	1
Edec 200	Curriculum Development in Literacy	2
Edec 245	Challenging Behaviors in Young Children	2
Edec 293	Issues of Child Abuse	2
Educ& 115	Child Development	5
Educ& 204	Exceptional Child	5
Educ 210	Assisting Practicum	6
Educ 240	Multicultural/Anti-Bias Issues in Education	3-5
Electives	Any ECE, Edec, Educ	5

Satisfies general education requirements.

*** 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.

Gender Studies Academic Certificate 20 Credits

The interdisciplinary academic certificate focuses on the study of gender. The program includes an introductory course in gender studies and 15 credits of additional courses. Content for additional courses may include issues of gender roles for men and women, social construction of gender and sex, and sexuality.

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

Contact: Michelle Marshman, ext. 4384
mmarshman@greenriver.edu

Dept./No.	Course Title	Credits
Required Course:		
Human 160 or S Sci 160	Introduction to Gender Studies or Introduction to the Study of Gender	5
Select 15 credits from the following courses:		
Engl 160	Literature By and About Women	(5)
Hist& 215	Women in United States History	(5)
Human 224	Women and World Religion	(5)
Phil 206	Philosophical Issues of Sex and Gender	(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 courses 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
Required Course:		
Hist 233	History of Latin America	5
Span& 222	Spanish V	5
Select 10 credits from the following courses:		
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)

Information Technology Computer Support Specialist Associate in Applied Science-Transfer Degree (AAS-T) 90 Credits

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

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

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

Contact: Alan Carter, ext. 4630 Gus Gomez, ext. 4309
acarter@greenriver.edu ggomez@greenriver.edu

Dept./No.	Course Title	Credits
General Education Requirements:		
Bus& 101	Introduction to Business	5
Cmst& 210 or Cmst& 220 or Cmst& 230	Interpersonal Communication or Public Speaking or Small Group Communication	5
Engl& 101	English Composition I	5
Math& 107 or Math& 141 or Math& 142 or Math 147 or Math& 148 or Math& 151	Math in Society or Precalculus 1 or Precalculus 2 or Finite Math for Business and Social Science or Business Calculus or Calculus I	5
Core Requirements:		
* Keyboarding	30 wpm (5 minute-typing test administered by Business Education department)	
Bus E 100	Fundamentals of Computers	5
Bus E 132	Business Communication Applications	5
IT 101	Introduction to Computer Science	5
IT 110 or IT 115 or	PC Support Technician 1 or CompTIA A+ Certification PC Support Technician 2 or CompTIA A+ Certification	0-5 0-5

IT 116	PC Support Technician 3 (Windows Applications)	5
IT 130	Introduction to Networking	5
IT 135	Introduction to Network Security	5
# IT 140	Customer Service for IT Professionals	5
IT 160	Microsoft Windows (Current version) Server Implementation	5
IT 225 or IT 121 or Bus E 184	Shell Scripting for Windows or Introduction to HTML or Internet Basic and Web Design	5
IT 240	Manage MS Windows (Current version) Network Environment	5
Practical Experience: Ten credits from the following courses:		10
IT 171	IT Work Experience Seminar	(1)
IT 175	Student Assistant	(0-4)
IT 178	Help Desk Work Experience	(5-9)

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

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

** *Elective credits are only required if students submit a CompTIA A+ certification in place of IT 110 and/or IT 115.*

Note: *Students wishing to transfer to Central Washington University should take Engl 128 in addition to Engl& 101. They should also take Math 147, and one of the following: (Math& 107, Math& 141, Math& 142, Math& 148 or Math& 151). Students who wish to transfer should meet with an academic advisor to ensure they take the appropriate classes to meet the transfer requirements.*

Information Technology Information Assurance Associate in Applied Science-T (AAS-T) Degree 105-120 Credits

This degree program prepares graduates for employment in the information technology field as computer security specialists and information assurance technicians.

Information assurance is one of the fastest growing and most challenging specialty areas in information technology. Computer security specialists and information assurance technicians educate end users about security; implement security configurations, including hardening servers and client computers; monitor the network for attempted and actual security breaches; and respond to attacks.

Students in this degree program receive foundational training in a broad range of networking and computer systems administration subjects, resulting in a balanced, well-rounded knowledge of information technology. Students also complete four courses on key information assurance and network security topics: Introducing to Network Security, Information Assurance, Designing and Implementing Security, and Implementing and Security Wireless Networks. In addition to these specialized courses, students learn key interpersonal communication skills sought by employers and complete a minimum of 90 hours of information assurance-related work experience.

Contact: Alan Carter, ext. 4630 Gus Gomez, ext. 4309
 acarter@greenriver.edu ggomez@greenriver.edu

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

Engl 128	Research Writing: Science/Engineering/Business	5
Math& 107 or Math& 141 or Math& 142 or Math 147 or Math& 151	Math in Society or Precalculus 1 or Precalculus 2 or Finite Math for Business and Social Science or Eligible for Math& 142 or higher Calculus I	0-5

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

Core Requirements:

* Keyboarding	30 wpm (5 minute-typing test administered by Business Education department)	
IT 110 or	PC Support Technician 1 or CompTIA A+ Certification	0-5
IT 115 or	PC Support Technician 2 or CompTIA A+ Certification	0-5
IT 116 or	PC Support Technician 3 (Windows Applications) or Inside Microsoft Office	5
Bus E 266	Introduction to Networking	5
IT 130	Introduction to Network Security	5
IT 135	Customer Service for IT Professionals	5
IT 140	Introduction to Microsoft Project	5
IT 145	Microsoft Windows (Current version) Server Implementation	5
IT 160	Linux Administration Information Assurance	5
IT 190	Shell Scripting for Windows or Programming 1 for Information Professionals or CS& 141	5
IT 215	Computer Science 1 Java Implementing Firewalls	5
IT 225 or IT 102 or IT 216	Manage MS Windows (Current version) Network Environment or Advanced Linux Administration – TCP/IP	5
IT 240 or	Implementing and Administering Directory Services Patch Management	5
IT 243	Designing and Implementing Security	5
IT 245	Implementing and Securing Wireless Networks	5
IT 255		
IT 280		
IT 285		

Practical Experience – 10 credits from the following courses		10
IT 171	IT Work Experience Seminar	(1)
IT 175	Student Assistant	(0-3)
IT 178	Help Desk Work Experience	(0-9)
IT 179	Network Security Work Experience	(0-9)

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

Information Technology Networking Associate in Applied Science-Transfer Degree (AAS-T) 105-120 Credits

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

Students in this degree program receive foundational training in a broad range of networking and computer systems administration subjects, resulting in a balanced, well-rounded knowledge of information technology. Students also complete four courses on key networking topics: Introduction to Networking, Managing Cisco Routers and Switches, Managing a Microsoft

Windows Network Environment, and Implementing and Securing Wireless Networks (or Implementing and Managing Microsoft Exchange). In addition to these specialized courses, students learn key interpersonal communication skills sought by employers and complete a minimum of 90 hours of information assurance-related work experience.

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

Contact: Alan Carter, ext. 4630 Gus Gomez, ext. 4309
 acarter@greenriver.edu ggomez@greenriver.edu

Dept./No.	Course Title	Credits
General Education Requirements:		
Bus& 101	Introduction to Business	5
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/Business	5
Math& 107 or	Math in Society or	
Math& 141 or	Precalculus 1 or	
Math& 142 or	Precalculus 2 or	
Math 147 or	Finite Math for Business and Social Science or	
	Eligible for Math& 142 or higher	0-5
Math& 151	Calculus I	

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

Core Requirements:

* Keyboarding	30 wpm (five minute typing test administered by Business Education department)	
IT 110 or	PC Support Technician 1 or	0-5
IT 115 or	PC Support Technician 2 or	0-5
IT 116 or	PC Support Technician 3 (Windows Applications) or	
Bus E 266	Inside Microsoft Office	5
IT 130	Introduction to Networking	5
IT 132	Structured Cabling	2
IT 135	Introduction to Network Security	5
IT 140	Customer Service for IT Professionals	5
IT 145	Using Microsoft Project (Current version)	5
IT 160	Microsoft Windows (Current version)	
	Server Implementation	5
IT 190	Linux Administration	5
IT 210	Managing Cisco Routers and Switches	5
IT 102 or	Programming I for Information Professionals or	
IT 121 or	Introduction to HTML or	
Bus E 184 or	Internet Basic and Web Design or	
IT 225 or	Shell Scripting for Windows or	
CS& 141	Computer Science I Java	5
IT 216	Implementing Firewalls	5
IT 240 or	Manage MS Windows (Current version)	
	Network Environment or	
IT 243	Advanced Linux Administration – TCP/IP	5
IT 245	Implementing and Administering Directory Services	5
IT 250	Implement and Manage MS Exchange (Current version)	5

IT 252 or	MS SQL Server Administration or	
IT 201	Fundamental Database Design	5
IT 285	Implementing and Securing Wireless Networks	5

Practical Experience eight credits from the following courses: 8

IT 171	IT Work Experience Seminar	(1)
IT 175	Student Assistant	(0-3)
IT 178	Help Desk Work Experience	(0-7)
IT 181	Network Management Work Experience	(0-7)

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

**Information Technology
Networking Infrastructure**

**Associate in Applied Science-Transfer Degree (AAS-T)
103-113 Credits**

This degree program is designed to prepare graduates for employment in the fast-growing information technology field as network technicians, network administrators, and network engineers.

Network technicians and administrators install, support, and maintain an organization's network infrastructure. They also troubleshoot problems and monitor the network to ensure that performance and availability standards are met. Network engineers design, plan, implement and administer complex network environments.

Students in this degree program receive foundational training in a broad range of networking subjects, resulting in a balanced, well-rounded knowledge of planning, implementing, maintaining and troubleshooting networks, including the routers, switches, wireless networking, firewalls, and wiring infrastructure. In addition, students learn key interpersonal, critical thinking, and communication skills sought by employers. Each graduate of this program completes a minimum of 150 hours of network management work experience.

Contact: Alan Carter, ext. 4630 Gus Gomez, ext. 4309
 acarter@greenriver.edu ggomez@greenriver.edu

Dept./No.	Course Title	Credits
General Education Requirements: (25 credits)		
Bus& 101	Introduction to Business	5
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/Business	5
Math 147	Finite Mathematics for Business and Social Science	5

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

Core Requirements: (79-89 credits)

* Keyboarding	30 wpm (5 minute typing test administered by Business Education department)	
IT 110 or	PC Support Tech I or	
	Achieve Microsoft MCDST Certification or	
	Achieve CompTIA A+ Certification	0-5
IT 115 or	PC Support Tech II or	
	Achieve CompTIA A+ Certification	0-5
IT 130	Introduction to Networking	5
IT 132	Structured Cabling	2
IT 140	Customer Service for IT Professionals	5
IT 190	Linux Administration	5
IT 211	Routing Theory and Implementation	5
IT 212	Advanced Routing and Switching	5
IT 213	Implementing Wide Area Networking	5

IT 216	Implementing Firewalls	5
IT 240	Manage MS Windows (Current version) Network Environment	5
IT 271	Building Scalable Internetworks	5
IT 272	Implementing Secure Converged WANs	5
IT 273	Building Multilayer Switched Networks	5
IT 274	Optimizing Converged Networks	5
IT 285	Implementing and Securing Wireless Networks	5
IT 286	Implementing Voice Over IP (VOIP)	5
Practical Experience: Six credits from the following courses:		6
IT 171	IT Work Experience Seminar	(1)
IT 177	Network Administration Work Experience	(5)

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

Information Technology Systems

Associate in Applied Science-Transfer Degree (AAS-T) 90-105 Credits

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

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

Help-desk technicians troubleshoot hardware, software, and operating system problems end users report (usually via telephone.) Technical support specialists install, configure, update, troubleshoot, and repair computer hardware, software, operating systems, and peripheral devices. Network technicians and administrators install, support, and maintain an organization's network infrastructure. Students learn to troubleshoot problems and monitor the network to ensure the system meets performance and availability standards. System administrators install, support, and maintain an organization's network servers and directory services infrastructure.

Contact: Alan Carter, ext. 4630 Gus Gomez, ext. 4309
acarterm@greenriver.edu ggomez@greenriver.edu

Dept./No.	Course Title	Credits
General Education Requirements:		
Bus& 101	Introduction to Business	5
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/Business	5
Math& 142 or	Precalculus 2 or	
Math& 151	Calculus I	5
Phil& 101	Introduction to Philosophy	5
Psyc& 100 or	General Psychology or	
Soc& 101	Introduction to Sociology	5

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

Core Requirements:		
* Keyboarding	30 wpm (5-minute typing test administered by Business Education department)	
IT 102	Programming I for Information Professionals	5
IT 110 or	PC Support Technician 1 or CompTIA A+ Certification	0-5
IT 115 or	PC Support Technician 2 or CompTIA A+ Certification	0-5
IT 130	Introduction to Networking	5
IT 135	Introduction to Network Security	5
IT 140	Customer Service for IT Professionals	5
IT 160	Microsoft Windows (Current version) Server Implementation	5
IT 190	Linux Administration	5
IT 201	Fundamental Database Design	5
IT 210	Managing Cisco Routers and Switches	5
IT 216	Implementing Firewalls	5
IT 220	Programming II for Information Professionals	5
Practical Experience: Five credits from the following courses:		5
IT 171	IT Work Experience Seminar	(1)
IT 175	Student Assistant	(0-2)
IT 178	Help Desk Work Experience	(0-4)
IT 181	Network Management Work Experience	(0-4)

Electives: 0-5 Credits from any course numbered 100 or higher in the college catalog **0-5**

Note: Elective credits are only required if students submit a CompTIA A+ certification in place of IT 110 and/or IT 115.

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

Math/Science Certificate for Elementary (K8) Teachers Academic Certificate 30 Credits

A minimum cumulative GPA of 2.5 for all six courses and a minimum 2.0 GPA in each individual course is required to obtain the certificate. The certificate does not lead to a Washington state endorsement in mathematics or science.

Contact: Steve Kinholt, ext. 4354 Keith Clay, ext. 4248
skinholt@greenriver.edu kclay@greenriver.edu

Dept./No.	Course Title	Credits
Math 170	Number Theory for Elementary Teachers	5
Math 171	Geometry for Elementary Teachers	5
Math 172	Probability and Statistics for Elementary Teachers	5
IDS 101	Interdisciplinary Science 1	5
IDS 102	Interdisciplinary Science 2	5
IDS 103	Interdisciplinary Science 3	5

Mechanical Design Technology Associate in Applied Science Degree-Transfer (AAS-T) 120 Credits

Mechanical designers and technicians assist engineers in industry and require a very broad technological background. Students in this program develop proficiency in board drawing and computer-aided drafting. Students are able to prepare drawings for manufacturing and fabrication. The ANSI (American National Standards Institute) and the ASME (American Society of Mechanical Engineers) drafting and design standards will be taught and

reinforced as students prepare drawings in both 2-D and 3-D using AutoCAD, KeyCreator, and Mastercam applications software. Throughout this course of study, students use sketches, notes, technical literature, and personal research to complete assignments. Students complete related credits in the areas of manufacturing and engineering.

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

Contact: Terry Waagan, ext. 4342 Felix Serna, ext. 4321
 twaagan@greenriver.edu fserna@greenriver.edu

Dept./No.	Course Title	Credits
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 210 or	Interpersonal Communication or	5
Cmst& 220	Public Speaking	
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 145	Structural Drafting-Steel	4
D T 151	Technical Illustration	7
D T 231	Mechanical Design (CADD)	7
D T 232	Drafting and Design Projects (CADD)	7
D T 237	Advanced 3-D CADD/CAM	4
# Engl& 101 or	English Composition I or	
Engl 128	Research Writing: Science/Engineering/Business	5
I E 189	Basic Metallurgy	4
I E 204 or	Statics and Strengths or	
Engr& 214	Statics	5
# Phys 110 or	Introduction to College Physics or	
Phys 201	Physics/Science/Engineering 1	5
# Ten credits from the following Math courses:		10
Math& 141	Precalculus 1	(5)
Math& 142	Precalculus 2	(5)
Math& 151	Calculus I	(5)
Math& 152	Calculus II	(5)
Electives: Students must choose from the following courses to total 120 credits:		
Coop 171	Work Experience Seminar	(1)
D T 113	Introduction to SolidWorks	(4)
D T 175	Drafting Work Experience	(4-6)
D T 177-179	Drafting Work Experience 1-3	(3 ea)
D T 180-182	Leadership Skills 1-3	(1 ea)
D T 199 or 299	Independent Study-Drafting	(1-5 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	Intermediate Inventor	(3)
D T 277-279	Drafting Work Experience 4-6	(3 ea)
Engr 106	Introduction to Engineering Problems	(3)
Indus 102.1	Welding Survey 1	(3)
Mfg	Any Manufacturing class	(1-9)

Satisfies general education requirements.

Natural Resources Associate Pre-Professional Degree 95 Credits

This pre-professional degree program 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.

This program of study is designed to transfer to most four-year professional programs in natural resources or closely related fields. While setting up a specific program, students should consult the catalog of the school to which they plan to transfer. The university catalog requirements provide the guidance for substitutions. The pre-professional plan must be approved by the natural resources instructor/advisor. Some professional schools require a foreign language.

Contact: Dick Hopkins, ext. 4509 Rob Sjogren, ext. 4582
 dhopkins@greenriver.edu rsjogren@greenriver.edu

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

Natural Resources/GIS core classes:

GIS 291	GIS Project Planning	2
Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Natrs 180	Natural Resources Measurements	7
Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Air Photo Interpretation and Remote Sensing	5
Natrs 183	Tree and Shrub Identification	5
Natrs 210	Introduction to Soils	5

Mathematics—minimum of 10 credits from:

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

English—required:

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

Science—minimum of 10 credits from:

Biol& 211	Majors Cellular	6
Biol& 212	Majors Cellular	6
Biol& 213	Majors Cellular	6
Chem& 121	Introduction to Chemistry	5
Chem& 131	Introduction to Organic Chemistry and Biochemistry	5
Phys 105	Concepts of the Physical World	5

Humanities—required:

Cmst& 220	Public Speaking	5
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Social Science—minimum of 10 credits from:

Econ& 201	Microeconomics	5
Econ& 202	Macroeconomics	5
Geog 120	Introduction to Physical Geography	5
Soc& 101	Introduction to Sociology	5

Wellness:

P E 113	Group Dynamics Activities (taken concurrently with NATRS 181)	1
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Electives—minimum of 8 credits from:

- Any of the above-listed classes
- Any Natural Resources (NATRS) course
- Any Engineering course
- Any GRCC course that is required by the university of 100-level or higher

PROFESSIONAL/TECHNICAL DEGREES AND CERTIFICATES

There are 44 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.

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 Community 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 Community 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 Community College, and in some cases an advisory committee from business and industry. Certificates 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 Community 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).

AAA and AAS Degrees and Certificates

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	Certificates
Accounting Technician	Administrative Assistant
Administrative Assistant	Business Applications Specialist
Business Applications Specialist	Business Foundations
Business Management	Retail Management
Computer Reporting Technologies–Captioning	
Computer Reporting Technologies–Court Reporting	
Legal Administrative Assistant	
Medical Office Assistant	

OR

Advanced placement 3 (AP3):	Waiver from writing requirement; no 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, &220, and &230

** Although three credits are the minimum requirement, most communication 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 3 or 4 (AP3 or AP4):	Waiver from computation requirement on the AB Examination and 5 credits granted for Math&151
Advanced placement 5 (AP5):	Waiver from computation requirement on the AB Examination and 10 credits granted for Math&151 and Math&152
Advanced placement 3 (AP3):	Waiver from computation requirement on the BC Examination and 5 credits granted for Math&151
Advanced placement 4 or 5 (AP4 or AP5):	Waiver from computation requirement on the BC Examination and 10 credits granted for Math&151 and Math&152

C. Business Education 110 or Business Administration 145 for the following business related degrees and certificates:

Degrees	Certificates
Accounting Technician	Administrative Assistant
Administrative Assistant	Business Applications Specialist
Business Applications Specialist	Business Foundations
Business Management	Retail Management
Computer Reporting Technologies–Captioning	
Computer Reporting Technologies–Court Reporting	
Early Childhood Education	
Legal Administrative Assistant	
Medical Office Assistant	
Occupational Therapist Assistant	
Physical Therapist Assistant	

D. Computation - Acomp 100N for Occupational Therapy Assistant, Physical Therapist Assistant, and Practical Nursing programs.

E. Computation - Acomp 100T for Occupational Therapy Assistant, Physical Therapist Assistant, and Trades degrees.

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:

- Behavioral Science 103, 190**
- Business Management 166**
- Communication Studies 100, &210, &220, &230, 238**

** Although three credits are the minimum requirement, most courses that meet this requirement are offered at five credits.*

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
Core Requirements:		
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
* Acct 110	Practical Financial Accounting 1	5
* Acct 111	Practical Financial Accounting 2	5
Acct 112	QuickBooks for Accounting	5
** Acct 113	Practical Accounting	5
Acct 118	Individual Taxation	5
Acct 121	Payroll Accounting	5
Bus E 100	Fundamentals of Computers	5
† Bus E 101	Beginning Typing/Keyboarding	5
Bus E 162	Introduction to Excel	5
Bus E 163	Advanced Excel	5
Bus& 201 or Pols& 200	Business Law or Introduction to Law	5
Related Instruction Requirements:		
# B A 145	Business Computation	5
# Behsc 103 or Bus 166 or Cmst 100 or Cmst& 210 or Cmst& 220	Interpersonal Relations or Human Relations and Work Readiness or Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking	5
# Bus E 130 or Engl 109 or Engl& 101 or Engl 126 or Engl 127 or Engl 128	Business Correspondence or Writing for Trades and Professional/Technical Degrees or English Composition I or Writing: Humanities or Writing: Social Sciences or Research Writing: Science/Engineering/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
Reading	Eligible for Read 104, Reading Mastery	0-5

Electives: Students may choose from the following courses to total 90 credits:

Any Acct course	5
Any B A course	5
Any Bus E Course	5
Any Bus Course	5
Any Math Course	5
Coop 171	1
Econ 100	5
Econ& 201	5
Econ& 202	5

Satisfies related instruction requirements.

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

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

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

† Bus E 101; Beginning Typing/Keyboarding may be waived by passing a 3-minute typing test at 30 wpm with five or less errors using the proper touch typing techniques. Elective credits may be used to meet the minimum degree credit 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, GRCC 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
Core Requirements:		
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
* Acct 110	Practical Financial Accounting 1	5
* Acct 111	Practical Financial Accounting 2	5
Acct 112	QuickBooks for Accounting	5
Acct 121	Payroll Accounting	5
Bus E 100	Fundamentals of Computers	5
Bus E 110	Business Math Applications	5
Bus E 162	Introduction to Excel	5
* Acct& 201, Principles of Accounting I, may be substituted for Acct 110 and Acct 111.		

Accounting Clerk Certificate of Proficiency 15 Credits

Students 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
Core Requirements:		
* Acct 110	Practical Financial Accounting 1	5
Bus E 100	Fundamentals of Computers	5
Bus E 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 all required classes 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.

Contact: Lea Ann Simpson, ext. 4393
lsimpson@greenriver.edu

Julie Slettvet, ext. 4687
jslettvet@greenriver.edu

Susan Kolwitz, ext. 4375
skolwitz@greenriver.edu

Tonya McCabe, ext. 4783
tmccabe@greenriver.edu

Dept./No.	Course Title	Credits
Lifetime Fitness/Wellness/ Activity	Any course listed under the AA degree Lifetime Fitness/Wellness/Activity area	1+
Bus E 100	Fundamentals of Computers	5
* Bus E 101	Beginning Typing/Keyboarding	5
* Bus E 102	Intermediate Keyboarding	5
Bus E 103	Advanced Keyboarding	5
# Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
# Bus E 130	Business Correspondence	5
Bus E 132	Business Communication Applications	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 162 or Bus E 163	Introduction to Excel or Advanced Excel	5
Bus E 177	Business Education Work Experience 1	3
Bus E 200	Production Keyboarding	5
Bus E 214	Introduction to Information Security	5
# Bus E 250	Office Administration	5
Bus E 266	Inside Microsoft Office	5
# Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst& 230	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication	5
Coop 171	Work Experience Seminar	1
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test score) or completion of Read 094	0-5
Elective Courses: In addition to the required courses, if necessary, choose from the following to total 90 credits:		
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
Acct 110 or Acct& 201 or Bus E 090	Practical Financial Accounting 1 or Principles of Accounting I or Office Accounting	5
Acct 112	QuickBooks for Accounting	5
Behsc 190	Stress Management	5
Bus 166	Human Relations and Work Readiness	5
Bus E 080	Keyboarding	2
Bus E 107 and/or Bus E 108	Typing Speed and Accuracy 1 and/or Typing Speed and Accuracy 2	4-8
o Bus E 111	Personal Computing	3
o Bus E 115	Professional Image Building	1
Bus E 119 or Bus E 119.1-119.7	MOS Core and Expert Certification Preparation or Prep Tests: Microsoft Access, Excel, PowerPoint or Word	1-7
Bus E 120	Machine Transcription	5
Bus E 163	Advanced Excel	5
Bus E 170.1 or Bus E 170.2 or Bus E 170.3	Beginning Keyboarding-Alphabet Keys or Keyboarding-Mastering 10-Key and Symbols or Keyboarding-Speed and Accuracy-Skill Building	1
Bus E 171.1 or Bus E 171.2 or Bus E 171.3	PowerPoint: Preparing a Presentation or PowerPoint: Designs with Graphics and Multimedia or PowerPoint: Customize and Incorporate Web Features	1
Bus E 173.1 or Bus E 173.2 or Bus E 173.3 or Bus E 173.4 or Bus E 173.5	Word: Create, Edit and Format Documents or Word: Tables and Sharing Documents or Word: Mail Merges and Other Productivity Tools or Word: Create a Newsletter or Word: Creating Forms, Macros and Document Security	1
Bus E 174.1 or Bus E 174.2 or Bus E 174.3 or Bus E 174.4 or Bus E 174.5	Excel: Introduction to Formulas and Functions or Excel: Charts and Working with Large Worksheets or Excel as a Database or Excel: Data Consolidation and What-If Analysis or Excel: Collaboration, the Web and Macros	1

Bus E 175	Instructor Assistant	1-5
Bus E 176.1 or Bus E 176.2 or Bus E 176.3 or Bus E 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
† Bus E 178-179	Business Education Work Experience 2-3	2-10
Bus E 184	Internet and Basic Web Design	5
Bus E 185	Introduction to Microsoft Access	5
Bus E 214	Introduction to Information Security	5
Bus E 216	Computer Support Internship 1	5
Bus E 255	Advanced Word	5
Engl 105	Grammar and Usage	5
Psyc& 100	General Psychology	5
Soc& 101	Introduction to Sociology	5

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

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

Satisfies related instruction requirements.

o Qualifies as AA-DTA activity credit.

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

Administrative Assistant Certificate 65-70 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 Education degree program. Students in this program must complete all required classes with a grade of 2.0 or higher.

Contact: Lea Ann Simpson, ext. 4393 | Julie Slettvet, ext. 4687
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Susan Kolwitz, ext. 4375 | Tonya McCabe, ext. 4783
skolwitz@greenriver.edu | tmccabe@greenriver.edu

Dept./No.	Course Title	Credits
Bus E 100	Fundamentals of Computers	5
* Bus E 102	Intermediate Keyboarding	5
Bus E 103	Advanced Keyboarding	5
# Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
# Bus E 130	Business Correspondence	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 162 or Bus E 163	Introduction to Excel or Advanced Excel	5
Bus E 214	Introduction to Information Security	5
# Bus E 250	Office Administration	5
Bus E 266	Inside Microsoft Office	5
# Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst& 230	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication	5
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test score) or completion of Read 094	0-5

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

Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
Acct 110 or Acct& 201 or Bus E 090	Practical Financial Accounting 1 or Principles of Accounting I or Office Accounting	5
Acct 112	QuickBooks for Accounting	5
Bus 166	Human Relations and Work Readiness	5
Bus E 080	Keyboarding	2
* Bus E 101	Beginning Typing/Keyboarding	5
Bus E 107 and/or Bus E 108	Typing Speed and Accuracy 1 and/or Typing Speed and Accuracy 2	4-8
o Bus E 111	Personal Computing	3
o Bus E 115	Professional Image Building	1
Bus E 120	Machine Transcription	5
Bus E 132	Business Communication Applications	5
Bus E 163	Advanced Excel	5
Bus E 170.1 or Bus E 170.2 or Bus E 170.3	Beginning Keyboarding-Alphabet Keys or Keyboarding-Mastering 10-Key and Symbols or Keyboarding-Speed and Accuracy-Skill Building	1
Bus E 171.1 or Bus E 171.2 or Bus E 171.3	PowerPoint: Preparing a Presentation or PowerPoint: Design with Graphics and Multimedia or PowerPoint: Customize and Incorporate Web Features	1
Bus E 173.1 or Bus E 173.2 or Bus E 173.3	Word: Create, Edit and Format Documents or Word: Tables and Sharing Documents or Word: Mail Merges and Other Productivity Tools or	
Bus E 173.4 or Bus E 173.5	Word: Create a Newsletter or Word: Creating Forms, Macros and Document Security	1
Bus E 174.1 or Bus E 174.2 or Bus E 174.3 or Bus E 174.4 or Bus E 174.5	Excel: Introduction to Formulas and Functions or Excel: Charts and Working with Large Worksheets or Excel as a Database or Excel: Data Consolidation and What-If Analysis or Excel: Collaboration, the Web and Macros	1
Bus E 176.1 or Bus E 176.2 or Bus E 176.3 or Bus E 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
† Bus E 177-179 and Coop 171	Business Education Work Experience 1-3 and Work Experience Seminar	2-10
Bus E 184	Internet and Basic Web Design	5
Bus E 185	Introduction to Microsoft Access	5
Bus E 214	Introduction to Information Security	5
Bus E 255	Advanced Word	5
Engl 105	Grammar and Usage	5

* 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.

o Qualifies as AA-DTA activity credit.

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

Data Entry Certificate of Proficiency 14-15 Credits

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

Contact: Lea Ann Simpson, ext. 4393 Julie Slettvet, ext. 4687
lsimpson@greenriver.edu jslettvet@greenriver.edu
Susan Kolwitz, ext. 4375 Tonya McCabe, ext. 4783
skolwitz@greenriver.edu tmccabe@greenriver.edu

Dept./No.	Course Title	Credits
Bus E 100	Fundamentals of Computers	5
Bus E 101 or Bus E 107	Beginning Typing/Keyboarding or Typing Speed and Accuracy 1	4-5
Bus E 110	Business Math Applications	5

File Clerk Certificate of Proficiency 14 -15 Credits

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

Contact: Lea Ann Simpson, ext. 4393 Julie Slettvet, ext. 4687
lsimpson@greenriver.edu jslettvet@greenriver.edu
Susan Kolwitz, ext. 4375 Tonya McCabe, ext. 4783
skolwitz@greenriver.edu tmccabe@greenriver.edu

Dept./No.	Course Title	Credits
Bus E 100	Fundamentals of Computers	5
Bus E 101 or Bus E 107	Beginning Typing/Keyboarding or Typing Speed and Accuracy 1	4-5
Bus E 140	Records Management	5

Office Support 1 Certificate of Proficiency 14-15 Credits

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

Contact: Lea Ann Simpson, ext. 4393 Julie Slettvet, ext. 4687
lsimpson@greenriver.edu jslettvet@greenriver.edu
Susan Kolwitz, ext. 4375 Tonya McCabe, ext. 4783
skolwitz@greenriver.edu tmccabe@greenriver.edu

Dept./No.	Course Title	Credits
Bus E 102 or Bus E 107	Intermediate Keyboarding or Typing Speed and Accuracy 1	4-5
Bus E 112	Beginning Word	5
Bus E 130	Business Correspondence	5

Office Support 2
Certificate of Proficiency
14-15 Credits

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

Contact: Lea Ann Simpson, ext. 4393 Julie Slettvet, ext. 4687
 lsimpson@greenriver.edu jslettvet@greenriver.edu

Susan Kolwitz, ext. 4375 Tonya McCabe, ext. 4783
 skolwitz@greenriver.edu tmccabe@greenriver.edu

Dept./No.	Course Title	Credits
Bus E 103 or Bus E 107	Advanced Keyboarding or Typing Speed and Accuracy 1	4-5
Bus E 250	Office Administration	5
Bus E 266	Inside Microsoft Office	5

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

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

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

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

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

Contact: Mark Millbauer, ext 4285 Paul Mueller, ext. 2635
 mmillbauer@greenriver.edu pmueller@greenriver.edu

Dept./No.	Course Title	Credits
Abody 100	Conduct/Safety/Equipment	1
Abody 104	Non-Structural Repair	14
Abody 105	Structural Damage Repair	14
Abody 106	Mechanical and Electrical Repair	15
Abody 107	Plastics and Adhesives	3
Abody 108	Painting and Refinishing	20
Abody 109	Special Shop Practice	11
Abody 110	Estimating for Collision Repair	3
Abody 177-179	Auto Body Work Experience 1-3	4
Abody 180-184	Industry Leadership 1-5	5
Indus 102.1	Welding Survey 1	3
Indus 102.2	Welding Survey 2	3
First Aid/CPR	Possess First Aid/CPR card upon graduation	

Related Instruction Requirements:

# Cmst 100	Fundamentals of Oral Communication	5
# Engl 109	Writing for Trades and Professional/ Technical Degrees	5
# Human Relations	Any course that satisfies the Related Instruction Requirements on page 56	3-5

Acomp 100T or Computation for the Trades or
 Math 062 Review of Arithmetic or
 Eligible for Math 070 0-5

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

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

Auto Body Technology –
Collision Repair
Certificate of Proficiency
44 Credits

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

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

Contact: Mark Millbauer, ext 4285 Paul Mueller, ext. 2635
 mmillbauer@greenriver.edu pmueller@greenriver.edu

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

Auto Body Technology –
Paint and Refinishing
Certificate of Proficiency
44 Credits

This certificate program prepares students for entry-level employment in the auto body paint shop. Students are instructed in the basics of shop and hazardous material safety, painting, and basic auto body repair through completion of NATEF (National Automotive Technician Education Foundation) certified courses.

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

Contact: Mark Millbauer, ext 4285 Paul Mueller, ext. 2635
 mmillbauer@greenriver.edu pmueller@greenriver.edu

Dept./No.	Course Title	Credits
Abody 100	Conduct/Safety/Equipment	1
Abody 104	Non-Structural Repair	14
Abody 107	Plastics and Adhesives	3
Abody 108	Painting and Refinishing	20
Abody 109	Special Shop Practice	6

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
dsorensen@greenriver.edu khoffman@greenriver.edu

Paul Mueller, ext. 2635
pmueller@greenriver.edu

Dept./No.	Course Title	Credits
First Quarter		
Reading requirement	Eligible for Read 104	
Atech 110	Shop Procedures	2
Atech 116	Suspension and Steering	6
Atech 117	Brakes	7
Atech 150	Automotive Leadership Skills 1	1
# Cmst 100	Fundamentals of Oral Communication	5
Second Quarter		
# Acomp 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 Electronic Systems	14
Atech 151	Automotive Leadership Skills 2	1
Third Quarter		
Atech 112	Engine Performance	9
Atech 113	Engine Repair	3
Atech 152	Automotive Leadership Skills 3	1
Indus 102.1	Welding Survey 1	3
Fourth Quarter		
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 Professional/Technical Degrees	5
Fifth Quarter		
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
# Behsc 103	Interpersonal Relations	5
Sixth Quarter		
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.

Automotive Technology – Brakes, Steering and Suspension

Certificate of Proficiency

16 Credits

Recipients of the certificate will have achieved 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 will be 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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Paul Mueller, ext. 2635
pmueller@greenriver.edu

Dept./No.	Course Title	Credits
First Quarter		
Reading requirement	Eligible for Read 104	
Atech 110	Shop Procedures	2
Atech 116	Suspension and Steering	6
Atech 117	Brakes	7
Atech 150 or Atech 151 or Atech 152 or Atech 153 or Atech 154	Automotive Leadership Skills 1 or Automotive Leadership Skills 2 or Automotive Leadership Skills 3 or Automotive Leadership Skills 4 or Automotive Leadership Skills 5	1 1 1 1 1

Automotive Technology – Electrical Systems

Certificate of Proficiency

15 Credits

Recipients of this 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.

Contact: Dan Sorensen, ext. 4202 Karl Hoffman, ext. 4253
dsorensen@greenriver.edu khoffman@greenriver.edu

Paul Mueller, ext. 2635
pmueller@greenriver.edu

Dept./No.	Course Title	Credits
Reading requirement	Eligible for Read 104	
Atech 111	Electrical and Electronic Systems	14
Atech 150 or Atech 151 or Atech 152 or Atech 153 or Atech 154	Automotive Leadership Skills 1 or Automotive Leadership Skills 2 or Automotive Leadership Skills 3 or Automotive Leadership Skills 4 or Automotive Leadership Skills 5	1 1 1 1 1

**Automotive Technology –
Engine Performance**
Certificate of Proficiency
15 Credits

Recipients of this 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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Paul Mueller, ext. 2635
pmueller@greenriver.edu

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 Technology –
Heating and Air Conditioning**
Certificate of Proficiency
7 Credits

Recipients of this 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.

Contact: Dan Sorensen, ext. 4202 Karl Hoffman, ext. 4253
dsorensen@greenriver.edu khoffman@greenriver.edu

Paul Mueller, ext. 2635
pmueller@greenriver.edu

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 Technology -
Transmission and Transaxle**
Certificate of Proficiency
15 Credits

Recipients of this 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 an opportunity to develop essential skills necessary for an entry-level position in 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.

Contact: Dan Sorensen, ext. 4202 Karl Hoffman, ext. 4253
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Paul Mueller, ext. 2635
pmueller@greenriver.edu

Dept./No.	Course Title	Credits
Reading requirement	Eligible for Read 104	
Atech 114	Automatic Transmission and Transaxle	8
Atech 115	Manual Drive Trains and Axle	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

Air Transportation
Associate in Applied Science Degree
95 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.

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

Dept./No.	Course Title	Credits
Acct 110 or	Practical Financial Accounting 1 or	
Acct& 201	Principles of Accounting I	5
Avia 101	Aviation Fundamentals	5
Avia 110	Airline Operation	5
Avia 111 or	Private Pilot Ground School or	
Avia 123	Aviation Weather	5
Avia 213	Aviation History and Careers	5
Avia 214	Airport Management and Operations	5
# Behsc 103 or	Interpersonal Relations or	
Behsc 190 or	Stress Management or	
Bus 166 or	Human Relations and Work Readiness or	
Cmst& 210	Interpersonal Communication	5
Bus& 101 or	Introduction to Business or	
Bus 164	Entrepreneurship and Small Business Management	5
Bus 121	Marketing Fundamentals	5
Bus E 100	Fundamentals of Computers	5
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220	Public Speaking	5
Econ 100 or	Economic Principles and Applications or	
Econ& 202	Macroeconomics	5

# Engl& 101	English Composition I	5
# Math	Any Math course 100 or higher	5
Psyc& 100	General Psychology	5
Electives (20 credits). Must include any two (2) of the following:		
Avia 177-179 and	Aviation Work Experience 1-3 and	1-13
Coop 171	Work Experience Seminar	1
Avia 211 and	Aerodynamics for Pilots and	3
Avia 212	Human Factors for Aviators	2
Bus& 201	Business Law	5
Bus 159	Professional Selling	5
Bus 181	Introduction to International Business	5
Natrs 117	Aerial Photography Uses and Ground Based Mapping	2

Satisfies related instruction requirements.

Air Traffic Control Associate in Applied Science Degree 97 Credits

Green River Community College is a Federal Aviation Administration-Air Traffic College Training Initiative (FAA AT-CTI) school. Graduates of this program must meet the following specific program completion standards (Recommendation Criteria) to earn a positive recommendation for hire by the FAA.

Academic Performance – Students must successfully complete:

1. Non-aviation courses with a grade of 75% (GRCC grade 2.0) or higher,
2. Aviation courses, except ATC courses, with a grade of 80% (GRCC grade 2.5) or higher,
3. ATC courses, excluding Avia 203 ATC Capstone Course, with a grade of 85% (GRCC grade 3.0) or higher,
4. Successfully complete Avia 203 – the GRCC ATC capstone course – with a grade of 87% (GRCC grade 3.2) or higher, **AND**, complete the following tests in:
 - A. Avia 203 Area Knowledge Test – **90%**
 - B. Avia 203 Phraseology Tests – **80%**
 - C. Avia 203 Strip-Marking Tests – **80%**
 - D. Avia 203 AT-Basics Final Exam series (Four Tests) with a minimum score of 80% on any of the final four exams and an overall average score of 90% or higher for all four tests.
5. The ATC degree program with an overall minimum GPA of 85% (GRCC 3.0)

Conduct and Deportment

GRCC AT-CTI faculty must recommend to the FAA the suitability of each graduate of this program to work for the FAA in an Air Traffic Control job. To earn a positive recommendation, students must demonstrate excellent judgment, superior cooperation and respectful behavior at all times and in all situations. Any factual situation on or off campus involving a student that reflects on the student's judgment or ability to work effectively within groups or teams, will be included in the GRCC recommendation to the FAA.

Contact: George Comollo, ext. 4336 Curt Scott, ext. 4335
gcomollo@greenriver.edu cscott@greenriver.edu

Dept./No.	Course Title	Credits
Avia 101	Aviation Fundamentals	5
Avia 110	Airline Operation	5
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 128	Basic Weather Observation	2
Avia 201	Air Traffic Control 1	5
Avia 202	Air Traffic Control 2	5
Avia 203	Air Traffic Control 3-Enroute ATC	5
Avia 208	Airline Dispatch	5

Avia 209	International Flight Planning and ETOPS	5
Avia 211	Aerodynamics for Pilots	3
Avia 212	Human Factors for Aviators	2
Avia 213	Aviation History and Careers	5
Avia 214	Airport Management and Operations	5
Avia 216	Instrument Pilot Ground School	5
# Behsc 103 or	Interpersonal Relations or	
Behsc 190 or	Stress Management or	
Bus 166 or	Human Relations and Work Readiness or	
Cmst& 210	Interpersonal Communication	5
Bus E 100	Fundamentals of Computers	5
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220	Public Speaking	5
# Engl& 101	English Composition I	5
# Math 115T or	Natural Resources Algebra/Trigonometry 1 or	
	Any Math course 100 or higher	5
Natural Science	Any physics, chemistry, geology, biology, astronomy course with a lab	5

Suggested Electives:

Avia 112	Aircraft System and Flight Deck Technology	2
Avia 121	Basic Weather Theory	2
Avia 127	Basic Weather Reports	1
Avia 177-179 and	Aviation Work Experience 1-3 and	1-13
Coop 171	Work Experience Seminar	1
Natrs 117	Aerial Photography Uses and Interpretation	2

Satisfies related instruction requirements.

Aircraft Dispatcher Certificate of Proficiency 41- 43 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/typing skills may be demonstrated by passing a 3-minute typing test at 30 wpm with five or less errors using the proper touch typing technique administered by the Business Education department.

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

Dept./No.	Course Title	Credits
First Quarter		
Avia 110	Airline Operation	5
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Second Quarter		
Avia 201	Air Traffic Control 1	5
Avia 216	Instrument Pilot Ground School	5
Bus E 100 or	Fundamentals of Computers or	
Bus E 111	Personal Computing	3-5
Third Quarter		
Avia 208	Airline Dispatch	5
Avia 209	International Flight Planning and ETOPS	5
Elective	Any course 100 or higher	3

Advanced Air Traffic Control
Certificate of Proficiency
25 Credits

This certificate program prepares individuals with no background in aviation for the FAA admission test into the Air Traffic Control System.

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

Dept./No.	Course Title	Credits
First Quarter		
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 216	Instrument Pilot Ground School	5
Second Quarter		
Avia 201	Air Traffic Control 1	5
Avia 202	Air Traffic Control 2	5

Airline Dispatch
Associate in Applied Science Degree
92 Credits

Contact: George Comollo, ext. 4336 Curt Scott, ext. 4335
 gcomollo@greenriver.edu cscott@greenriver.edu

Dept./No.	Course Title	Credits
Avia 101	Aviation Fundamentals	5
Avia 110	Airline Operation	5
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 128	Basic Weather Observation	2
Avia 201	Air Traffic Control 1	5
Avia 202	Air Traffic Control 2	5
Avia 208	Airline Dispatch	5
Avia 209	International Flight Planning and ETOPS	5
Avia 211	Aerodynamics for Pilots	3
Avia 212	Human Factors for Aviators	2
Avia 213	Aviation History and Careers	5
Avia 214	Airport Management and Operations	5
Avia 216	Instrument Pilot Ground School	5
# Behsc 103 or	Interpersonal Relations or	
Behsc 190 or	Stress Management or	
Bus 166 or	Human Relations and Work Readiness or	
Cmst& 210	Interpersonal Communication	5
Bus E 100	Fundamentals of Computers	5
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220	Public Speaking	5
# Engl& 101	English Composition 1	5
# Math 115T or	Natural Resources Algebra/Trigonometry 1 or	
	Any Math course 100 or higher	5
Natural Science	Any physics, chemistry, geology, biology, astronomy course with a lab	5
Suggested Electives:		
Avia 112	Aircraft System and Flight Deck Technology	2
Avia 121	Basic Weather Theory	2
Avia 127	Basic Weather Reports	1
Avia 177-179 and	Aviation Work Experience 1-3 and	1-13
Coop 171	Work Experience Seminar	1
Natrs 117	Aerial Photography Uses and Interpretation	2

Satisfies related instruction requirements.

Airline Dispatcher Completion
Certificate of Proficiency
20 - 25 Credits

This certificate 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.

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

Dept./No.	Course Title	Credits
First Quarter		
Avia 111	Private Pilot Ground School (if necessary)	0-5
Avia 123	Aviation Weather	5
Avia 216	Instrument Pilot Ground School	5
Second Quarter		
Avia 201	Air Traffic Control 1	5
Avia 208	Airline Dispatch	5

International Flight Planning
Certificate of Proficiency
25 - 30 Credits

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

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

Dept./No.	Course Title	Credits
First Quarter:		
Avia 111	Private Pilot Ground School (if necessary)	0-5
Avia 123	Aviation Weather	5
Avia 216	Instrument Pilot Ground School	5
Second Quarter:		
Avia 201	Air Traffic Control 1	5
Avia 208	Airline Dispatch	5
Avia 209	International Flight Planning and ETOPS	5

Helicopter Pilot
Associate in Applied Science Degree
93 Credits

This degree program is similar to Professional Pilot except that an instrument rating is not required. The Commercial Helicopter Pilot FAA certificate (license) is required. This degree requires 150 hours of flight time. Flight training is conducted at Boeing Field, Tacoma Narrows, or Crest Airpark.

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

Dept./No.	Course Title	Credits
Avia 101	Aviation Fundamentals	5
Avia 110	Airline Operation	5
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 201	Air Traffic Control 1	5
Avia 206	Helicopter Ground School	3
Avia 208	Airline Dispatch	5
Avia 211	Aerodynamics for Pilots	3
Avia 212	Human Factors for Aviators	2

Avia 213	Aviation History and Careers	5
Avia 216	Instrument Pilot Ground School	5
Avia 218	Commercial Pilot Ground School	5
# Behsc 103 or	Interpersonal Relations or	
Behsc 190 or	Stress Management or	
Bus 166 or	Human Relations and Work Readiness or	
Cmst& 210	Interpersonal Communication	5
Bus E 100	Fundamentals of Computers	5
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220	Public Speaking	5
# Engl& 101	English Composition 1	5
# Math	Any Math course 100 or higher	5
Natural Science	Any physics, chemistry, geology, biology, astronomy course with a lab	5

Electives: Select 10 credits from the following courses to total 93 credits:

Avia 177-179 and	Aviation Work Experience 1-3 and	1-13
Coop 171	Work Experience Seminar	1
GIS 260	Cartography-Based GIS	5
Natrs 117	Aerial Photography Uses and Ground Based Mapping	2

Satisfies related instruction requirements.

Helicopter Certificate Certificate of Proficiency 33 Credits

This one year Helicopter certificate option supplements the GRCC Helicopter Pilot two year degree program.

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

Dept./No.	Course Title	Credits
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 206	Helicopter Ground School	3
Avia 211	Aerodynamics for Pilots	3
Avia 212	Human Factors for Aviators	2
Avia 213	Aviation History and Careers	5
Avia 216	Instrument Pilot Ground	5
Avia 218	Commercial Pilot Ground	5

Professional Pilot Associate in Applied Science Degree 97 Credits

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

Charges for flight training include a per-hour rate for the aircraft (about \$98 per hour), and per hour rate for the flight instructor when the instructor is on-board, for a combined total of about \$130 per hour. As the student progresses to higher ratings, such as instrument pilot, more expensive aircraft is required for at least part of the flight time. The flight instructor also charges a fee for pre- and post-flight instruction. Flight costs are in addition to tuition and can be paid to Green River or to the flight school.

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Curt Scott, ext. 4335
cscott@greenriver.edu

Dept./No.	Course Title	Credits
Avia 101	Aviation Fundamentals	5
Avia 110	Airline Operation	5
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 128	Basic Weather Observation	2
Avia 201	Air Traffic Control 1	5
Avia 208	Airline Dispatch	5
Avia 211	Aerodynamics for Pilots	3
Avia 212	Human Factors for Aviators	2
Avia 213	Aviation History and Careers	5
Avia 214	Airport Management and Operations	5
Avia 216	Instrument Pilot Ground School	5
Avia 218	Commercial Pilot Ground School	5
# Behsc 103 or	Interpersonal Relations or	
Behsc 190 or	Stress Management or	
Bus 166 or	Human Relations and Work Readiness or	
Cmst& 210	Interpersonal Communication	5
Bus E 100	Fundamentals of Computers	5
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220	Public Speaking	5
# Engl& 101	English Composition 1	5
# Math	Any Math course 100 or higher	5
# Natural Science	Any Physics, Chemistry, Geology, Biology, Astronomy course with a lab	5

Electives: Select ten (10) credits from the following courses to total 97 credits.

Avia 112	Aircraft System and Flight Deck Technology	2
Avia 121	Basic Weather Theory	2
Avia 127	Basic Weather Reports	1
Avia 177-179 and	Aviation Work Experience 1-3 and	1-13
Coop 171	Work Experience Seminar	1
Natrs 117	Aerial Photography Uses and Ground Based Mapping	2
GIS 260	Cartography-Based GIS	5

Satisfies related instruction requirements.

Basic Airport Management Certificate of Proficiency 15 Credits

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

Curt Scott, ext. 4335
cscott@greenriver.edu

Dept./No.	Course Title	Credits
Avia 110	Airline Operation	5
Avia 213	Aviation History and Careers	5
Avia 214	Airport Management and Operations	5

Basic Aviation Knowledge Certificate of Proficiency 10 Credits

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

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

Curt Scott, ext. 4335
cscott@greenriver.edu

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

Intermediate Aviation Knowledge
Certificate of Proficiency
15 Credits

This certificate program prepares individuals with only the Private Pilot background in aviation for the FAA Instrument Pilot written exam.

Contact: George Comollo, ext. 4336 Curt Scott, ext. 4335
 gcomollo@greenriver.edu cscott@greenriver.edu

Dept./No.	Course Title	Credits
First Quarter		
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 216	Instrument Pilot Ground School	5

Advanced Aviation Knowledge
Certificate of Proficiency
20 Credits

This certificate program prepares individuals with a Private Pilot and Instrument Rating Background for the FAA Commercial Pilot written exam.

Contact: George Comollo, ext. 4336 Curt Scott, ext. 4335
 gcomollo@greenriver.edu cscott@greenriver.edu

Dept./No.	Course Title	Credits
First Quarter		
Avia 111	Private Pilot Ground School	5
Avia 123	Aviation Weather	5
Avia 216	Instrument Pilot Ground School	5
Second Quarter		
Avia 218	Commercial Pilot Ground School	5

Basic Weather Observer
Certificate of Proficiency
5 Credits

This certificate program prepares students to become Certified Weather Observers under National Weather Service standards. It allows students with no background in this field to obtain the necessary knowledge and become Certified Weather Observers upon employment within the aviation industry.

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

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

Dept./No.	Course Title	Credits
Avia 121	Basic Weather Theory	2
Avia 127	Basic Weather Reports	1
Avia 128	Basic Weather Observation	2

Business Applications Specialist
Associate in Applied Arts Degree
91-96 Credits

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

Contact: Tonya McCabe, ext. 4783 Lea Ann Simpson, ext. 4393
 tmccabe@greenriver.edu lsimpson@greenriver.edu

Dept./No.	Course Title	Credits
Lifetime Fitness/Wellness/Activity	Any courses under the AA degree Lifetime Fitness/Wellness/Activity Area	1+
Bus E 100	Fundamentals of Computers	5
* Bus E 101	Beginning Typing/Keyboarding	5
* Bus E 102	Intermediate Keyboarding	5
# Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
# Bus E 130	Business Correspondence	5
Bus E 132	Business Communication Applications	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 162	Introduction to Excel	5
Bus E 184	Internet and Basic Web Design	5
Bus E 185	Introduction to Microsoft Access	5
Bus E 214	Introduction to Information Security	5
Bus E 216	Computer Support Internship 1	5
Bus E 218	Basic Office PC Support	5
# Bus E 250	Office Administration	5
Bus E 266	Inside Microsoft Office	5
# Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst& 230	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication	5
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test score) or completion of Read 094	0-5

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

Acct 110 or Acct& 201 or Bus E 090	Practical Financial Accounting 1 or Principles of Accounting I or Office Accounting	5
Acct 112	QuickBooks for Accounting	5
Behsc 190	Stress Management	5
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
Bus 166	Human Relations and Work Readiness	5
Bus E 103	Advanced Keyboarding	5
Bus E 107 and/or Bus E 108	Typing Speed and Accuracy 1 and/or Typing Speed and Accuracy 2	4-8
o Bus E 111	Personal Computing	3
o Bus E 115	Professional Image Building	1
Bus E 119 or Bus E 119.1-119.7	MOS Core and Expert Certification Preparation or Prep Tests: Microsoft Access, Excel, PowerPoint or Word	1-7
Bus E 132	Business Communication Applications	5
Bus E 163	Advanced Excel	5
Bus E 170.1 or Bus E 170.2 or Bus E 170.3	Beginning Keyboarding-Alphabet Keys or Keyboarding-Mastering 10-Key and Symbols or Keyboarding-Speed and Accuracy-Skill Building	1
Bus E 171.1 or Bus E 171.2 or Bus E 171.3	PowerPoint: Preparing a Presentation or PowerPoint: Design with Graphics and Multimedia or PowerPoint: Customize and Incorporate Web Features	1
Bus E 173.1 or Bus E 173.2 or Bus E 173.3 or Bus E 173.4 or Bus E 173.5	Word: Create, Edit and Format Documents or Word: Tables and Sharing Documents or Word: Mail Merges and Other Productivity Tools or Word: Create a Newsletter or Word: Creating Forms, Macros and Document Security	1
Bus E 174.1 or Bus E 174.2 or Bus E 174.3 or Bus E 174.4 or Bus E 174.5	Excel: Introduction to Formulas and Functions or Excel: Charts and Working with Large Worksheets or Excel as a Database or Excel: Data Consolidation and What-If Analysis or Excel: Collaboration, the Web and Macros	1

Bus E 175	Instructor Assistant	1-5
Bus E 176.1 or	Access: Create and Modify a Database or	
Bus E 176.2 or	Access: Use Queries to Produce Information or	
Bus E 176.3 or	Access: Create and Modify Forms or	
Bus E 176.4	Access: Create and Modify Reports	1
† Bus E 177-179 and	Business Education Work Experience 1-3 and	2-10
Coop 171	Work Experience Seminar	1
Bus E 217	Computer Support Internship 2	5
Bus E 219	Basic Networking Concepts	5
Bus E 255	Advanced Word	5
Psyc& 100	General Psychology	5
Soc& 101	Introduction to Sociology	5

Satisfies related instruction requirements.

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

† Students may earn up to 10 credits through Cooperative Education classes.

◦ Qualifies as AAA activity credit.

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 educational background and skills to help secure employment as an office worker in an entry-level position. These credits can be applied to any Business Education degree program. Students in this program must complete all required classes with a grade of 2.0 or higher.

Contact: Tonya McCabe, ext. 4783 Lea Ann Simpson, ext. 4393
 tmcabec@greenriver.edu lsimpson@greenriver.edu

Dept./No.	Course Title	Credits
Bus E 100	Fundamentals of Computers	5
* Bus E 102	Intermediate Keyboarding	5
# Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
#* Bus E 130	Business Correspondence	5
Bus E 132	Business Communication Applications	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 162	Introduction to Excel	5
Bus E 184	Internet and Basic Web Design	5
Bus E 185	Introduction to Microsoft Access	5
Bus E 218	Basic Office PC Support	5
# Bus E 250	Office Administration	5
Bus E 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

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

Acct 110 or	Practical Financial Accounting 1 or	
Acct& 201 or	Principles of Accounting I or	
Bus E 090	Office Accounting	5
Acct 112	QuickBooks for Accounting	5
Art 109	Beginning Design	5
Bus& 101 or	Introduction to Business or	
Bus 164	Entrepreneurship and Small Business Management	5

Bus 166	Human Relations and Work Readiness	5
Bus E 101	Beginning Typing/Keyboarding	5
Bus E 103	Advanced Keyboarding	5
Bus E 107 and/or	Typing Speed and Accuracy 1 and/or	
Bus E 108	Typing Speed and Accuracy 2	4-8
◦ Bus E 111	Personal Computing	3
◦ Bus E 115	Professional Image Building	1
Bus E 119 or	MOS Core and Expert Certification Preparation or	
Bus E 119.1-119.7	Prep Tests: Microsoft Access, Excel, PowerPoint, or Word	1-7
Bus E 132	Business Communication Applications	5
Bus E 163	Advanced Excel	5
Bus E 170.1 or	Beginning Keyboarding-Alphabet Keys or	
Bus E 170.2 or	Keyboarding-Mastering 10-Key and Symbols or	
Bus E 170.3	Keyboarding-Speed and Accuracy-Skill Building	1
Bus E 171.1 or	PowerPoint: Preparing a Presentation or	
Bus E 171.2 or	PowerPoint: Design with Graphics and Multimedia or	
Bus E 171.3	PowerPoint: Customize and Incorporate Web Features	1
Bus E 173.1 or	Word: Create, Edit and Format Documents or	
Bus E 173.2 or	Word: Tables and Sharing Documents or	
Bus E 173.3 or	Word: Mail Merge and Other Productivity Tools or	
Bus E 173.4 or	Word: Create a Newsletter or	
Bus E 173.5	Word: Creating Forms, Macros and Document Security	1
Bus E 174.1 or	Excel: Introduction to Formulas and Functions or	
Bus E 174.2 or	Excel: Charts and Working with Large Worksheets or	
Bus E 174.3 or	Excel as a Database or	
Bus E 174.4 or	Excel: Data Consolidation and What-If Analysis or	
Bus E 174.5	Excel: Collaboration, the Web and Macros	1
Bus E 175	Instructor Assistant	1-5
Bus E 176.1 or	Access: Create and Modify a Database or	
Bus E 176.2 or	Access: Use Queries to Produce Information or	
Bus E 176.3 or	Access: Create and Modify Forms or	
Bus E 176.4	Access: Create and Modify Reports	1
† Bus E 177 and	Business Education Work Experience 1 and	3-5
Coop 171	Work Experience Seminar	1
Bus E 214	Introduction to Information in Security	5
Bus E 216	Computer Support Internship 1	5
Bus E 217	Computer Support Internship 2	5
Bus E 219	Basic Networking Concepts	5
Bus E 255	Advanced Word	5

Satisfies related instruction requirements.

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

† Students may earn up to 10 credits through Cooperative Education classes.

◦ Qualifies as AAA activity credit.

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

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 the student educational background and skills to be involved in a small business focusing on current business applications. Students in this program must complete all required classes with a grade of 2.0 or higher.

Contact: Tonya McCabe, ext. 4783 Lea Ann Simpson, ext. 4393
 tmccabe@greenriver.edu lsimpson@greenriver.edu

Dept./No.	Course Title	Credits
Required Classes:		
Acct 110	Practical Financial Accounting 1	5
Bus 164	Entrepreneurship and Small Business Management	5
† Bus E 101	Beginning Typing/Keyboarding	0-5
Bus E 130	Business Correspondence	5
Bus E 162	Introduction to Excel	5
Bus E 266	Inside Microsoft Office	5
Bus E 132	Business Communication Applications	5
Bus E 214	Introduction to Information Security	5
Electives: Select one from the following courses to total 40 credits:		
Acct 111	Practical Financial Accounting 2	5
Acct 112	QuickBooks for Accounting	5
Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 163	Advanced Excel	5
Bus E 184	Internet and Basic Web Design	5
Bus E 185	Introduction to Microsoft Access	5
Bus E 214	Introduction to Information Security	5
Bus E 216	Computer Support Internship 1	5

† Bus E 101 Beginning Typing/Keyboarding may be waived by passing a 5-minute typing test at 35 wpm with five or less errors using the proper touch typing techniques. Elective credits may be used to meet the minimum degree credit requirements.

**Business Applications –
 Distance Education Preparation
 Certificate of Proficiency
 15 Credits**

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

Contact: Tonya McCabe, ext. 4783 Lea Ann Simpson, ext. 4393
 tmccabe@greenriver.edu lsimpson@greenriver.edu

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

**Business Management
 Associate in Applied Arts Degree
 93-98 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 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 Education Dept.)	
Reading	Eligible for Read 104 or completion of Read 094	0-5
Acct 110 or Acct& 201	Practical Financial Accounting 1 or Principles of Accounting I	5
# B A 145 or Math& 107 or Math 147	Business Computation or Math in Society or Finite Math for Business and Social Science	5
Bus& 101 or Bus 164	Introduction to Business or 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 175	Career Management Seminar	1
Bus 177	Supervised Work Experience 1	2
Bus 181	Introduction to International Business	5
Bus 202	Project Management and E-Business	5
Bus 257	Customer Service Strategies	5
Bus 258	Principles of Management and Supervision	5
Bus E 100	Fundamentals of Computers	5
# Bus E 130 or Engl& 101	Business Correspondence or English Composition 1	5
Bus E 162	Introduction to Excel	5
# Cmst& 210 or Cmst& 220	Interpersonal Communication or Public Speaking	5

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

Bus& 201 or Pols& 200	Business Law or Introduction to Law	5
Bus E	Any Business Education classes	5
Econ 100 or Econ& 202	Economic Principles and Applications or Macroeconomics	5

Satisfies related instruction requirements.

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

**Business Management –
 Business Foundations
 Certificate
 45 Credits**

Contact: Jeff Perlot, ext. 4685
 jperlot@greenriver.edu

Dept./No.	Course Title	Credits
Acct 110 or Acct& 201	Practical Financial Accounting 1 or Principles of Accounting 1	5
# B A 145 or Math& 107 or Math 147	Business Computation or Math in Society or Finite Math in Business and Social Science	5
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
# Bus 166	Human Relations and Work Readiness	5
Bus 173	Basic Financial Management	5
Bus E 100	Fundamentals of Computers	5
# Bus E 130 or Engl& 101	Business Correspondence or English Composition 1	5
Bus E 162	Introduction to Excel	5
# Cmst& 210 or Cmst& 220	Interpersonal Communication or Public Speaking	5

Satisfies related instruction requirement

**Business Management –
International Business
Certificate of Proficiency
30 Credits**

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

Contact: Jeff Perlot, ext. 4685
jperlot@greenriver.edu

Dept./No.	Course Title	Credits
Bus& 101 or Bus 164	Introduction to Business or Entrepreneurship and Small Business Management	5
Bus 121	Marketing Fundamentals	5
Bus 181	Introduction to International Business	5
Bus 184	International Business Strategies	5
Bus& 201 or Pols& 200	Business Law or Introduction to Law	5
Econ& 202 or Geog 205	Macroeconomics or Environmental Geography	5

**Business Management –
Management and Supervision
Certificate of Proficiency
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. 4865
jperlot@greenriver.edu

Dept./No.	Course Title	Credits
Bus 103	Business Leadership	5
Bus 166	Human Relations and Work Readiness	5
Bus 181	Introduction to International Business	5
Bus 202	Project Management and E-Business	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.

Dept./No.	Course Title	Credits
Bus 121	Marketing Fundamentals	5
Bus 159	Professional Selling	5
Bus 202	Project Management and E-Business	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.

Dept./No.	Course Title	Credits
# B A 145 or Math& 107 or Math 147	Business Computation or Math in Society or Finite Math for Business and Social Science	5
Acct 110 or Acct& 201	Practical Financial Accounting 1 or Principles of Accounting I	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
Bus E 100	Fundamentals of Computers	5
# Bus E 130 or Engl& 101	Business Correspondence or English Composition 1	5
# Cmst& 210 or Cmst& 220	Interpersonal Communication or Public Speaking	5

Satisfies related instruction requirement

**Fundamentals of Caregiving:
Introduction to Health Occupations
Certificate of Proficiency
12 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
Fall Quarter: H Hsc 110	Fundamentals of Caregiving: Introduction to Health Occupations	12

**Carpentry Technology –
Residential and Light Commercial
Associate in Applied Science Degree
91-96 Credits**

This degree program prepares individuals to become successfully employed in the field of construction. Students can also apply these skills to a variety of jobs within the residential construction field. Students can choose to earn a variety of certificates related to residential carpentry, or can earn an AAS in Residential and Light Commercial Carpentry. After completion of the certificates or the degree, students can readily find employment as

a carpenter helper for either general or specialty contractors. Generally after a period of time, most students find themselves in jobs such as: lead carpenters, general contractors, specialty contractors, supervisors, vendor representatives, designers, retail sales specialists, building inspectors, or in other construction-related employment such as construction management positions.

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

Additional Note: Students are required to show proof of medical insurance for all Carpentry classes with the exception of Carpentry 144 and 148.

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

Dept/No.	Course Title	Credits
* Carp 101.1	Residential and Light Commercial Carpentry 1	13
Carp 101.2	Carpentry Seminar 1	3
* Carp 102.1	Residential and Light Commercial Carpentry 2	13
Carp 102.2	Carpentry Seminar 2	3
* Carp 103.1	Residential and Light Commercial Carpentry 3	13
Carp 103.2	Carpentry Seminar 3	3
Carp 144	Residential Blueprint Reading	3
Carp 145	Stair Design and Construction	4
Carp 146	Basic Cabinet Construction	4
Carp 147	Residential Remodeling Practices	6
Carp 148	Material Estimating	4
Carp 149	Rafter Cutting and Assembly	4
Carp 151	International Residential Code	3

Related Instruction Requirements:

# Human Relations	5 credits of Human Relations listed in the Related Instruction Requirements on page 56	5
# Oral Communication	5 credits of Oral Communications listed in the Related Instruction Requirements on page 56	5
# Written Communication	5 credits of Written Communications listed in the Related Instruction Requirements on page 56	5
# Computation	Acomp 100T, Computation for the Trades or Completion of Math 062 or Eligible for Math 070	0-5

* One credit of Leadership embedded within this course.

Bold face course offered days only. Other courses offered nights only.

Satisfies related instruction requirements.

Note: Most Related Instruction courses have prerequisites. Please work with Carpentry advisor to select courses that 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
 gmartin@greenriver.edu pmueller@greenriver.edu

Dept/No.	Course Title	Credits
Carp 101.1	Residential and Light Commercial Carpentry 1	13
Carp 101.2	Carpentry Seminar 1	3
Carp 102.1	Residential and Light Commercial Carpentry 2	13
Carp 103.1	Residential and Light Commercial Carpentry 3	13

Carpentry Technology – Residential Concrete Forming and Placement Certificate of Proficiency 16 Credits

This certificate program offers students the basic skills and knowledge to find employment with specialty or general contractors whose focus is residential foundations or concrete flatwork (driveways, sidewalks, etc.). Primarily, the focus is on locating and forming residential foundations that are square, level, plumb, and per specifications. In addition, students learn portable power tool usage related to foundation work, as well as how to calculate, order, and place concrete.

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

Dept./No.	Course Title	Credits
Carp 101.1	Residential and Light Commercial Carpentry 1	13
Carp 101.2	Carpentry Seminar 1	3

Carpentry Technology – Residential Exterior Finish Level 1 Certificate of Proficiency 9 Credits

This certificate program 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 specifically for exterior trim, as well as exterior material knowledge and specifications.

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

Dept./No.	Course Title	Credits
Carp 103.1	Residential and Light Commercial Carpentry 3	9

Carpentry Technology – Residential Interior Finish Level 1 Certificate of Proficiency 16 Credits

This certificate program offers students the basic skills and knowledge required to find employment with specialty or general contractors whose focus is interior finishing. Students develop basic skills in drywall installation and finishing, installing interior doors, installing running and standing trim, installing various interior accessories, and basic cabinet installation. In addition, students learn portable power tool usage designed specifically for interior trim, interior material knowledge, and specifications.

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

Dept./No.	Course Title	Credits
Carp 103.1	Residential and Light Commercial Carpentry 3	13
Carp 103.2	Carpentry Seminar 3	3

**Carpentry Technology –
Residential Interior Finish Level 2**
Certificate of Proficiency
26 Credits

This certificate program 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 develop skills in cabinet construction, advanced cabinet installation techniques, countertop construction and installation (laminated and basic solid surface products), kitchen/bath design, and material estimating.

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

Dept./No.	Course Title	Credits
Carp 103.1	Residential and Light Commercial Carpentry 3	13
Carp 103.2	Carpentry Seminar 3	3
Carp 146	Basic Cabinet Construction	4
Carp 147	Residential Remodeling Practices	6

**Carpentry Technology –
Residential Light and Commercial Framing 1**
Certificate of Proficiency
16 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 gauge metal, etc. Students develop basic skills in blueprint reading, layout skills, assembly and erection 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 frame structures, framing material knowledge, and specifications.

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

Dept./No.	Course Title	Credits
* Carp 102.1	Residential and Light Commercial Carpentry 2	13
* Carp 102.2	Carpentry Seminar 2	3

* Must complete sections I and II in student manual.

**Carpentry Technology –
Residential Light and Commercial Framing 2**
Certificate of Proficiency
24 Credits

This certificate program prepares students with the additional skills and knowledge required for advancement with specialty or general contractors whose focus is residential and/or light commercial framing. Students develop skills in two areas specific to framing stair design and construction (straight run stairs, ¼ and ½ turn stairs, and basic circular stairs), as well as knowledge of all the UBC requirements that govern stairs, and calculating, cutting, and assembly of "stick framed" roof systems, (ceiling joist and common, hip, valley, and jack rafters).

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

Dept./No.	Course Title	Credits
* Carp 102.1	Residential and Light Commercial Carpentry 2	13
* Carp 102.2	Carpentry Seminar 2	3
Carp 145	Stair Design and Construction	4
Carp 149	Roof Cutting and Assembly	4

* Must complete sections I and II in student manual.

**Computer Reporting Technologies –
Captioning - Sequence A (Day)**
Associate in Applied Arts Degree
144-209 Credits

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

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

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

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

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

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

Dept./No.	Course Title	Credits
# B A 145 or	Business Computation or	
Bus E 110 or	Business Math Applications or	
Math 072	Eligible for Math 072	0-5
Bus E 109	Legal Terminology	3
# Bus E 130 or	Business Correspondence or	
Engl& 101 or	English Composition 1 or	
Engl 109	Writing for Trades and Professional/ Technical Degrees	5
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220	Public Speaking	5
Crpt 100.1	Machine Shorthand Theory 1	10
Crpt 100.2	Machine Shorthand Theory 2	10
Crpt 101.1	Machine Shorthand Theory 3	10
Crpt 101.2	Machine Shorthand – 60 wpm	10
Crpt 102	Machine Shorthand – 80 wpm	8-12
Crpt 133	Machine Shorthand – 100 wpm	8-16
Crpt 134	Machine Shorthand – 120 wpm	8-16
Crpt 135	Machine Shorthand – 140 wpm	8-16
Crpt 136	Machine Shorthand – 160 wpm	8-16
# Crpt 153	Court Reporting Procedures 1	5
Crpt 201	Machine Shorthand – 180 wpm	8-16
Crpt 202	Machine Shorthand – 200 wpm	8-16
Crpt 203	Machine Shorthand – 225 wpm	8-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Crpt 252	Captioning Internship 1	4
Crpt 253	Captioning Internship 2	4
Crpt 254	Captioning Internship 3	4

Edec 220	Introduction to Sign Language 1	2
Engl 108	Medical Terminology	2

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

Acct 110	Practical Financial Accounting 1	5
Bus 103	Business Leadership	5
Bus& 201 or Pols& 200	Business Law or Introduction to Law	5
Bus E 100	Fundamentals of Computers	5
Bus E 107 or Bus E 108 or * Typing test	Typing Speed and Accuracy 1 or Typing Speed and Accuracy 2 or 60 wpm with fewer than 5 errors	5 5 0-4
Bus E 184	Internet and Basic Web Design	5
Bus E 266	Inside Microsoft Office	5
Crpt 255	Computer-Aided Transcription-Advanced	3
Edec 221	Sign Language 2	2
Engl 106	Vocabulary Mastery	5
Lib 101	Searching Electronic Databases	2

Additional Suggested Electives: Electives might not be eligible for financial aid or veteran's benefits.

(See your financial aid advisor.)

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

Satisfies related instruction requirements.

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

**Computer Reporting Technologies –
Captioning - Sequence B (Evening)**
Associate in Applied Arts Degree
98-135 Credits

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

Dept./No.	Course Title	Credits
# B A 145 or Bus E 109	Business Computation or Legal Terminology	3
Bus E 110 or Math 072	Business Math Applications or Eligible for Math 072	0-5
# Bus E 130 or Engl& 101 or Engl 109	Business Correspondence or English Composition 1 or Writing for Trades and Professional/ Technical Degrees	5
# Cmst 100 or Cmst& 220	Fundamentals of Oral Communication or Public Speaking	5
Crpt 080	Machine Shorthand Lab	0-6
Crpt 090	Machine Shorthand Theory	3-4
Crpt 091	Machine Shorthand Advanced Theory	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 202	Machine Shorthand – 200 wpm	8-16
Crpt 203	Machine Shorthand – 225 wpm	8-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Crpt 252	Captioning Internship 1	4
Crpt 253	Captioning Internship 2	4
Crpt 254	Captioning Internship 3	4
Edec 220	Introduction to Sign Language 1	2
Engl 108	Medical Terminology	2

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

Acct 110	Practical Financial Accounting 1	5
Bus 103	Business Leadership	5
Bus& 201 or Pols& 200	Business Law or Introduction to Law	5
Bus E 100	Fundamentals of Computers	5
Bus E 107 or Bus E 108 or * Typing test	Typing Speed and Accuracy 1 or Typing Speed and Accuracy 2 or 60 wpm with fewer than 5 errors	5 5 0-4
Bus E 184	Internet and Basic Web Design	5
Bus E 266	Inside Microsoft Office	5
Crpt 255	Computer-Aided Transcription – Advanced	3
Edec 221	Sign Language 2	2
Engl 106	Vocabulary Mastery	5
Lib 101	Searching Electronic Databases	2

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

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

Satisfies related instruction requirements.

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

**Computer Reporting Technologies –
Court Reporting - Sequence A (Day)**
Associate in Applied Science Degree
148-217 Credits

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

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

The Green River Court Reporting program is accredited by the National Court Reporters Association. All students entering the Court Reporting program must be high school graduates or have earned a GED certificate. A COMPASS spelling test score of 90 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 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 higher on literary at 180 wpm and jury charge at 200 wpm; 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 state and 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 Weldele-Wallace, ext.4705
lrapozo@greenriver.edu sweldele@greenriver.edu

Dept./No.	Course Title	Credits
AP 100	Survey of Human Anatomy-Physiology	5
# B A 145 or Bus E 110 or Math	Business Computation or Business Math Applications or Eligible for Math 072	0-5
# Bus E 130 or Engl& 101 or Engl 109	Business Correspondence or English Composition 1 or Writing for Trades and Professional/Technical Degrees	5

Bus E 109	Legal Terminology	3
# Cmst 100 or Cmst& 220	Fundamentals of Oral Communication 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	8-12
Crpt 133	Machine Shorthand – 100 wpm	8-16
Crpt 134	Machine Shorthand – 120 wpm	8-16
Crpt 135	Machine Shorthand – 140 wpm	8-16
Crpt 136	Machine Shorthand – 160 wpm	8-16
# Crpt 153	Court Reporting Procedures 1	5
# Crpt 154	Court Reporting Procedures 2	5
Crpt 177-179 and Coop 171	Court Reporting/Captioning Work Experience 1-3 and Work Experience Seminar	2-6 1
Crpt 201	Machine Shorthand – 180 wpm	8-16
Crpt 202	Machine Shorthand – 200 wpm	8-16
Crpt 203	Machine Shorthand – 225 wpm	8-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Engl 105	Grammar and Usage	5
Engl 108	Medical Terminology	2

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

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

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

Bus E 112	Beginning Word	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 162	Introduction to Excel	5
Bus E 255	Advanced Word	5
CJ& 101	Introduction to Criminal Justice	5
CJ& 240	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 five or less errors using the proper typing techniques administered by the Business Education Department.

Computer Reporting Technologies – Court Reporting - Sequence B (Evening) Associate in Applied Science Degree 103-143 Credits

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

Dept./No.	Course Title	Credits
AP 100	Survey of Human Anatomy-Physiology	5
# B A 145 or Bus E 110 or Math	Business Computation or Business Math Applications or Eligible for Math 072	0-5
Bus E 109	Legal Terminology	3
# Bus E 130 or Engl& 101 or Engl 109	Business Correspondence or English Composition 1 or Writing for Trades and Professional/Technical Degrees	5

# Cmst 100 or Cmst& 220	Fundamentals of Oral Communication or Public Speaking	5
Crpt 080	Machine Shorthand Lab	1-6
Crpt 090	Machine Shorthand Theory	3-4
Crpt 091	Machine Shorthand Advanced Theory	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 1-3 and Work Experience Seminar	2-6 1
Crpt 202	Machine Shorthand – 200 wpm	8-16
Crpt 203	Machine Shorthand – 225 wpm	8-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Engl 105	Grammar and Usage	5
Engl 108	Medical Terminology	2

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

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

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

Bus E 112	Beginning Word	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 162	Introduction to Excel	5
Bus E 255	Advanced Word	5
CJ& 101	Introduction to Criminal Justice	5
CJ& 240	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 five or less errors using the proper typing techniques administered by the Business Education Department.

Computer Reporting Technologies – 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 health care will be highly sought after in the next century.

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

Dept./No.	Course Title	Credits
AP 100 or AP 103	Survey of Human Anatomy-Physiology or Essentials of Human Anatomy-Physiology 1	5
Bus E 123	Advanced Medical Machine Transcription	5
Crpt 177 and Coop 171	Court Reporting/Captioning Work Experience 1-3 and Work Experience Seminar	2
Bus E 130 or Engl& 101	Business Correspondence or English Composition I	5
Crpt 136 or Crpt 098	Machine Shorthand – 160 wpm or Machine Shorthand – 160 wpm	6-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Engl 108	Medical Terminology	2
Electives: Students must choose from the following courses to total 43 credits:		
Acct 110	Practical Financial Accounting 1	5
Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
Bus E 124	Medical Transcription Production	5
Bus E 140	Records Management	5
Bus E 145	ICD Medical Coding	5
Bus E 184	Internet and Basic Web Design	5
Bus E 255	Advanced Word	5
Bus E 266	Inside Microsoft Office	5
Crpt 255	Computer-Aided Transcription Advanced	3
Engl 105	Grammar and Usage	5

**Computer Reporting Technologies –
Scoltist/Text Editor
Certificate of Proficiency
44 Credits**

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

Dept./No.	Course Title	Credits
Crpt 100.1 and Crpt 100.2 or Crpt 090 and Crpt 091	Machine Shorthand Theory 1 and Machine Shorthand Theory 2 or Machine Shorthand Theory and Machine Shorthand Theory-Advanced	8-20
Crpt 101.1 and Crpt 092	Machine Shorthand Theory 3 and Machine Shorthand – 40 wpm	4-10
Crpt 153	Court Reporting Procedures 1	5
Crpt 250	Computer-Aided Transcription	3
Crpt 255	Computer-Aided Transcription Advanced	3
Engl 108	Medical Terminology	2
Electives: Students must choose from the following courses to total 44 credits:		
Acct 110	Practical Financial Accounting 1	5
Bus E 109	Legal Terminology	3
Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
Bus E 130	Business Correspondence	5
Bus E 140	Records Management	5
Bus E 184	Internet and Basic Web Design	5
Bus E 255	Advanced Word	5
Bus E 266	Inside Microsoft Office	5
Crpt 177 and Coop 171	Court Reporting/Captioning Work Experience 1-3 and Work Experience Seminar	1-2 1

**Computer Reporting Technologies –
Text Entry
Certificate of Proficiency
42 Credits**

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

Dept./No.	Course Title	Credits
Bus E 109	Legal Terminology	3
Bus E 130 or Engl& 101	Business Correspondence or English Composition 1	5
Crpt 136 or Crpt 098	Machine Shorthand 160 wpm or Machine Shorthand 160 wpm	6-16
Crpt 250	Computer-Aided Transcription	3
Crpt 251	Introduction to Captioning/Alternative Careers	3
Crpt 177 and Coop 171	Court Reporting/Captioning Work Experience 1-3 and Work Experience Seminar	1-2 1

Electives: Students must choose from the following courses to total 42 credits:

Acct 110	Practical Financial Accounting 1	5
Bus E 100	Fundamentals of Computers	5
Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
Bus E 140	Records Management	5
Bus E 145	ICD Medical Coding	5
Bus E 184	Internet and Basic Web Design	5
Bus E 255	Advanced Word	5
Bus E 266	Inside Microsoft Office	5
Crpt 255	Computer-Aided Transcription-Advanced	3
Engl 105	Grammar and Usage	5
Engl 106	Vocabulary Mastery	5
Engl 108	Medical Terminology	2

**Computerized Machining and
Manufacturing Technology
Associate in Applied Science Degree
90-102 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 is prepared for entry into the manufacturing industry as a conventional or Computer Numerical Control (CNC) 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 4228
 ttaglien@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
# Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst& 230	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication	5
# Engl&101 or Engl 109	English Composition I or Writing for Trades and Professional/Technical Degrees	5

# Human Relations	Any course that satisfies the Human Relations Related Instruction Requirements on page 56	5
Indus 102.1	Welding Survey 1	3
Mfg 111	Measuring Systems and Quality Assurance Level 1	3
Mfg 112	Shop Safety and Production Procedures Level 1	2
Mfg 113	Cutting Tools and Workholding Level 1	2
Mfg 114	Manufacturing Planning and Processes Level 1	1
Mfg 115	Reading Engineering Drawings Level 1	3
Mfg 116	Manufacturing Careers and Management Level 1	1
Mfg 117	Conventional Milling Level 1	2
Mfg 118	Conventional Turning Level 1	2
Mfg 119	Precision Grinding Level 1	2
Mfg 121	Measuring Systems and Quality Assurance Level 2	3
Mfg 122	Shop Safety and Production Procedures Level 2	2
Mfg 123	Cutting Tools and Workholding Level 2	2
Mfg 124	Manufacturing Planning and Processes Level 2	1
Mfg 125	Reading Engineering Drawings Level 2	3
Mfg 126	Manufacturing Careers and Management Level 2	1
Mfg 127	Conventional Milling Level 2	2
Mfg 128	Conventional Turning Level 2	2
Mfg 129	Precision Grinding Level 2	2
Mfg 141	CNC Systems Level 1	2
Mfg 142	CNC Machining Level 1	2
Mfg 143	CNC Turning Level 1	2
Mfg 144	CAD/CAM Systems Level 1	2
Mfg 151	CNC Systems Level 2	2
Mfg 152	CNC Machining Level 2	2
Mfg 153	CNC Turning Level 2	2
Mfg 154	CAD/CAM Systems Level 2	2
Mfg 155	Advanced Manufacturing Processes	1
Mfg 156	Review-Job Shadow Level 1	1
Mfg 157	Review-Job Shadow Level 2	1
Mfg 158	Review-Job Shadow Level 3	1
Mfg 159	Review-Job Shadow Level 4	1
Mfg 160	Review-Job Shadow Level 5	1
Mfg 161	CNC Systems Level 3	2
Mfg 162 or I E 189	Applied Materials for Manufacturing or Basic Metallurgy	2-4
Mfg 164	Shop Math	2
Mfg 177 and Coop 171	Manufacturing Work Experience 1 and Work Experience Seminar	7-12 1

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

Bus E 111	Personal Computing	3
D T 115	Geometric Dimensioning and Tolerancing	4

Satisfies related instruction requirements.

Computerized 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, 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 4228
ttaglien@greenriver.edu

Dept./No.	Course Title	Credits
Acomp 100T or Math 072 or	Computations for the Trades or Elementary Algebra or Eligible of Math 097, Elementary Algebra	0-5
Mfg 111	Measuring Systems and Quality Assurance Level 1	3
Mfg 112	Shop Safety and Production Procedures Level 1	2
Mfg 113	Cutting Tools and Workholding Level 1	2
Mfg 114	Manufacturing Planning and Processes Level 1	1
Mfg 115	Reading Engineering Drawings Level 1	3
Mfg 116	Manufacturing Careers and Management Level 1	1
Mfg 117	Conventional Milling Level 1	2
Mfg 118	Conventional Turning Level 1	2
Mfg 119	Precision Grinding Level 1	2
Mfg 121	Measuring Systems and Quality Assurance Level 2	3
Mfg 141	CNC Systems Level 1	2
Mfg 142	CNC Machining Level 1	2
Mfg 143	CNC Turning Level 1	2
Mfg 144	CAD/CAM Systems Level 1	2
Mfg 151	CNC Systems Level 2	2
Mfg 155	Advanced Manufacturing Processes	1
Mfg 156	Review-Job Shadow Level 1	1
Mfg 157	Review-Job Shadow Level 2	1
Mfg 158	Review-Job Shadow Level 3	1
Mfg 162	Applied Materials for Manufacturing	2
Mfg 164	Shop Math	2

Criminal Justice

Associate in Applied Science Degree 112-113 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 Advisory Committee and the criminal justice club called "Future Criminal Justice Professionals." Those interested in transferring to a university should consider this degree because it also satisfies the requirements of the Associate in Arts degree. 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.

Contact: Ron Riley, ext. 4859
rriley@greenriver.edu

Dept./No.	Course Title	Credits
Anth& 206 or Anth& 236	Cultural Anthropology or Forensic Anthropology	5
# Cmst& 210	Interpersonal Communication	5
# Cmst& 230	Small Group Communication	5
# Engl& 101	English Composition I	5
Engl 126 or Engl 127 or Engl 128	Writing: Humanities or Writing: Social Sciences or Research Writing: Science/Engineering/Business	5
# Math& 107 or Math 100 or higher Natural Science	Math in Society or any college level Math class Select any three courses from at least two separate areas. 10 credits must be from List A, including a minimum of 5 credits from lab sciences. The additional 5 credits can be from List A or List B	5 15

P E 101 or	Physical Fitness Lab or	(2)	
P E 102 or	Jogging or	(2)	
P E 103 or	Total Physical Fitness or	(3)	
P E 111 or	Aerobic Walking or	(2)	
P E 131 or	Weight Training or	(2)	
* P E 149 or	CORE Training for Health or	(2)	
P E 160 or	Exercise and Nutrition or	(3)	
P E 165	Exercise and Health	(3)	2-3
P E 113	Group Dynamics Activities		1
Phil 160 or	Introduction to the Philosophy of Science or		
Phil 115	Reasoning in Everyday Life		5
Photo 101	Beginning Black and White Photography		5
Photo 111	Beginning Digital Photography		5
Psyc& 100	General Psychology		5
Soc& 101	Introduction to Sociology		5

Required Core Classes:

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	
Soc 215	Survey of Criminology	5	

Electives: Select from the following courses to total 112-113 credits.

Anth& 236	Forensic Anthropology	5	
Bus E 100	Fundamentals of Computers	5	
Bus E 140	Records Management	5	
Bus E 250	Office Administration	5	
CJ& 105	Introduction to Corrections	5	
CJ& 110	Criminal Law	5	
CJ 115	Fingerprint Science	5	
CJ 177-179 and	Criminal Justice Work Experience 1-3 and	5	
Coop 171	Work Experience Seminar	1	
CJ 236	Community Oriented Policing	5	
CJ& 240	Introduction to Forensic Science	5	
CJ 294	Special Topics: Criminal Justice	5	
CJ 299	Independent Study-Criminal Justice	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.

**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 new King County Detention facility, and other federal correctional facilities are still under construction. Great job potential with local correctional agencies exists for Green River students, though job placement is not guaranteed.

Contact: Ron Riley, ext. 4859
rriley@greenriver.edu

Dept./No.	Course Title	Credits
Bus E 140	Records Management	5
Bus E 250	Office Administration	5
CJ& 101	Introduction to Criminal Justice	5
CJ&105	Introduction to Corrections	5
CJ 200	Individual Rights to Criminal Justice	5
Eng& 101	English Composition I	5
Soc 215	Survey of Criminology	5

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

CJ 177-179 and	Criminal Justice Work Experience 1-3 and	1-5
Coop 171	Work Experience Seminar	1

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

**Law Enforcement
Certificate of Proficiency
40 Credits**

This short-term certificate is designed to be completed in just two 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 are afforded employment opportunities with local law enforcement agencies, though job placement is not guaranteed.

Contact: Ron Riley, ext. 4859
rriley@greenriver.edu

Dept./No.	Course Title	Credits
Bus E 140	Records Management	5
Bus E 250	Office Administration	5
CJ& 101	Introduction to Criminal Justice	5
CJ& 110	Criminal Law	5
CJ 200	Individual Rights in Criminal Justice	5
CJ 220	Multicultural Diversity in Criminal Justice	5
CJ 236	Community oriented Policing	5
Engl& 101	English Composition I	5

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

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

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

**Design Technology –
Design Drafting Technology
Associate in Applied Science Degree
110-111 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 ANSI (American National Standards Institute) and the ASME (American Society of Mechanical Engineers) drafting and design standards are taught and reinforced as students prepare drawings in both 2-D and 3-D using AutoCAD, KeyCreator, and Mastercam applications software. Throughout this course of study, students are required to 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.

Contact: Terry Waagan, ext. 4342 Felix Serna, ext.4321
twaagan@greenriver.edu fserna@greenriver.edu

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

D T 113 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 Professional/Technical Degrees or Research Writing: Science/Engineering/Business	5
# Math 116T or Math& 142 or Math& 151	Technical Math 2 or Precalculus 2 or Calculus I	5
Phys 110 or Phys 201	Introduction to College Physics or Physics/Science/Engineering 1	5
Three credits from the following courses:		3
Carp	Any Carpentry shop/lab course	(1-4)
Indus 102.1	Welding Survey 1	(3)
Mach/Mfg	Any Machining shop/lab course	(1-4)
Mfg 111 and Mfg 114 or Mfg 111 and Mfg 155	Measuring Systems Level 1 and Manufacturing Planning Level 1 or Measuring Systems Level 1 and Advanced Manufacturing Process	(3) (1) (3) (1)
Weld	Any Welding shop/lab course	(1-4)
Four credits from the following courses:		4
Carp 148	Material Estimating	(5)
Engr& 214	Statics	(5)
I E 189	Basic Metallurgy	(4)
I E 204	Statics and Strengths	(5)
Elective Courses: Additionally, complete 28 credits from the following list:		28
Bus 164	Entrepreneurship and Small Business Management	(5)
D T 110	Introduction to AutoCAD	(4)
D T 113	Introduction to SolidWorks	(4)
D T 115	Geometric Dimensioning and Tolerancing	(4)
D T 125	Civil Drafting 1	(5)
D T 141	Architectural Drafting 1	(5)
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)
D T 200	ADDA Certification Preparation	(2)
D T 210	Advanced AutoCAD Development 1	(4)
D T 225	Civil Drafting 2	(4)
D T 232	Drafting and Design Projects (CADD)	(7)
D T 236	Introduction to Inventor	(4)
D T 237	Advanced 3-D CADD/CAM	(4)
D T 238	Intermediate Inventor	(3)
D T 241	Architectural Drafting 2	(4)
GIS 121	Introduction to GIS	(5)
GIS 260	Cartography-Based GIS	(5)
I E 114	CATIA-2-D	(4)
I E 210	CATIA-Modeling	(7)
I E 214	CATIA-Solids	(5)
I E 215	CATIA-3-D Surfacing	(4)
Natrs 181	Forest Navigation and Mapping	(8)
A maximum of eight credits from the following courses:		8
Carp 148	Material Estimating	(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 shop/lab 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 177-179	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	(1-5 ea)
D T 277-279	Drafting Work Experience 4-6	(3 ea)
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 100	Introductory Composition	(5)
Engl& 101	English Composition I	(5)
Math 117T	Technical Math 3	(5)
Math& 141	Precalculus 1	(5)
Math& 151	Calculus I	(5)
Math& 152	Calculus II	(5)
Phys 111	College Physics 2	(5)

Satisfies related instruction requirements.

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

Design Technology – 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 are 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.

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twaagan@greenriver.edu fserna@greenriver.edu

Dept./No.	Course Title	Credits
Required Courses:		
Carp 151 or Carp 152	International Residential Code or International Building Code	3
# 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 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) 2
D T 125	Civil Drafting 1	5
D T 131	Mechanical Drafting-CADD	7
D T 141	Architectural Drafting 1	5
D T 151 or Natrs 181	Technical Illustration or Forest Navigation and Mapping	(1) 7-8

D T 225	Civil Drafting 2	4
# D T 231 or	Mechanical Design (CADD) or Three credits of the Human Relations Related Instructions requirement on page 56	3-7
Bus 164	Entrepreneurship and Small Business Management	5
D T 241	Architectural Drafting 2	4
# Engl 109 or	Writing for Trades and Professional/Technical Degrees or	
Engl 128	Research Writing: Science/Engineering/Business	5
GIS 121	Introduction to GIS	5
GIS 260	Cartography-Based GIS	5
I E 204 or	Statics and Strengths or	
Engr& 214	Statics	5
# Math 116T or	Technical Math 2 or	
Math& 142 or	Precalculus 2 or	
Math& 151	Calculus I	5
Phys 110 or	Introduction to College Physics or	
Phys 201	Physics/Science/Engineering 1	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

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

Carp	Any Carpentry course	(4)
Carp 151	International Residential Code	(3)
Carp 152	International Building Code	(3)
D T 142	REVIT Architecture 1	(4)
D T 145	Structural Drafting-Steel	(4)
D T 146	Structural Drafting-Concrete	(4)
D T 147	Structural Drafting-Wood	(4)
D T 151	Technical Illustration	(7)
D T 175	Drafting Work Experience	(4-6)
D T 177-179	Drafting Work Experience 1-3	(3 ea)
D T 180-182	Leadership Skills 1-3	(1 ea)
D T 199 or 299	Independent Study-Drafting	(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 Technology –
Manufacturing Technology - CIM**
Associate of Applied Science Degree
110-113 Credits

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 twaagan@greenriver.edu fserna@greenriver.edu

Dept./No.	Course Title	Credits
Required Courses:		
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 210 or	Interpersonal Communication or	
Cmst& 220	Public Speaking	5
D T 100 or	Introduction to CADD/CAM or	(7)
D T 110 and	Introduction to AutoCAD and	(4)
Bus E 150	Introduction to Windows	(5) 7-9

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 115	Geometric Dimensioning and Tolerancing	4
D T 131	Mechanical Drafting (CAD)	7
D T 135	3-D CADD/CAM	7
# D T 231	Mechanical Design (CAD)	7
I E 189	Basic Metallurgy	4
Mfg 111	Measuring Systems and Quality Assurance Level 1	3
Mfg 112	Shop Safety and Production Procedures Level 1	2
Mfg 113	Cutting Tools and Workholding Level 1	2
Mfg 114	Manufacturing Planning and Processes Level 1	1
Mfg 115	Reading Engineering Drawings Level 1	3
Mfg 116	Manufacturing Careers and Management Level 1	1
Mfg 117	Conventional Milling Level 1	2
Mfg 118	Conventional Turning Level 1	2
Mfg 119	Precision Grinding Level 1	2
Mfg 121	Measuring Systems and Quality Assurance Level 2	3
Mfg 141	CNC Systems Level 1	2
Mfg 142	CNC Machining Level 1	2
Mfg 143	CNC Turning Level 1	2
Mfg 144	CAD/CAM Systems Level 1	2
Mfg 155	Advanced Manufacturing Processes	1
Mfg 156	Review-Job Shadow Level 1	1
Mfg 162	Applied Materials for Manufacturing	2
Mfg 164	Shop Math	2
# Math 116T or	Technical Math 2 or	
Math& 142	Precalculus 2	5
# Engl 109 or	Writing for Trades and Professional/Technical Degrees or	
Engl 128	Research Writing: Science/Engineering/Business	5

Area of Emphasis:

17-18

A. Machining Emphasis

17 credits from suggested electives below (17)

B. Design Drafting Emphasis

(18)

D T 180-182 Leadership Skills 1-3 or
 Three credits of the Human Relations
 Related Instructions requirement
 on page 56 (3)

D T 237 Advanced 3-D CADD/CAM and
 11 credits from suggested
 electives below (11)

Suggested Electives:

Mfg 122	Shop Safety and Production Procedures Level 2	(2)
Mfg 123	Cutting Tools and Workholding Level 2	(2)
Mfg 124	Manufacturing Planning and Processes Level 2	(1)
Mfg 125	Reading Engineering Drawings Level 2	(3)
Mfg 126	Manufacturing Careers and Management Level 2	(1)
Mfg 127	Conventional Milling Level 2	(2)
Mfg 128	Conventional Turning Level 2	(2)
Mfg 129	Precision Grinding Level 2	(2)
Mfg 151	CNC Systems Level 2	(2)
Mfg 152	CNC Machining Level 2	(2)
Mfg 153	CNC Turning Level 2	(2)
Mfg 154	CAD/CAM Systems Level 2	(2)
Mfg 157	Review-Job Shadow Level 2	(1)
Mfg 158	Review-Job Shadow Level 3	(1)

Satisfies related instruction requirements.

Design Technology – 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 ANSI (American National Standards Institute) and the ASME (American Society of Mechanical Engineers) drafting and design standards are taught and reinforced as students prepare drawings in both 2-D and 3-D using AutoCAD, KeyCreator, and Mastercam applications software. Throughout this course of study, students use sketches, notes, technical literature, and personal research to complete assignments. Students complete related credits in the areas of manufacturing and engineering.

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

Students can also earn an Associate in Applied Science Degree-Transfer in Mechanical Design Technology (AAS-T) on page 54.

Contact: Terry Waagan, ext. 4342 Felix Serna, 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)
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 102 or D T 102.1 and D T 102.2	Descriptive Geometry or Descriptive Geometry and Machine Drafting 2	(7) (4) (3)
D T 105 or Tech 100	Design Drafting Careers or Careers for the New Millennium	(7) 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 145	Structural Drafting-Steel	5
D T 151	Technical Illustration	7
# D T 231	Mechanical Design (CADD)	7
D T 232	Drafting and Design Projects (CADD)	7
D T 237	Advanced 3-D CADD/CAM	4
# Engl 109 or Engl 128	Writing for Trades and Professional/Technical Degrees or Research Writing: Science/Engineering/Business	5 5
I E 189	Basic Metallurgy	4
I E 204 or Engr& 214	Statics and Strengths or Statics	5 5
Phys 110 or Phys 201	Introduction to College Physics or Physics/Science/Engineering 1	5 5
# Ten credits from the following Math courses:		10
Math& 141	Precalculus 1	(5)
Math& 142	Precalculus 2	(5)
Math& 151	Calculus I	(5)
Math& 152	Calculus II	(5)
Math 116T	Technical Math 2	(5)
Math 117T	Technical Math 3	(5)

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

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

Satisfies related instruction requirements.

Design Technology -- Architectural Drafting Proficiency

Certificate of Proficiency 39-42 Credits

Contact: Terry Waagan, ext. 4342 Felix Serna, ext. 4321
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Dept./No.	Course Title	Credits
Core Requirements:		
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)
D T 101 or D T 101.1 and D T 101.2	Technical Drafting or Drafting Fundamentals and Machine Drafting	(7) (4) (3)
D T 105 or Tech 100	Design Drafting Careers or Careers for the New Millennium	(7) 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 148	Material Estimating	(4)
Carp 151	International Residential Code	(3)
Carp 152	International Building Code	(3)
D T 125	Civil 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)

Design Technology – 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 Felix Serna, ext.4321
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Dept./No.	Course Title	Credits
Core Requirements:		
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 210 or	Interpersonal Communication or	5
Cmst& 220	Public Speaking	
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 125	Civil Drafting 1	5
D T 131	Mechanical Drafting (CADD)	7
D T 141	Architectural Drafting 1	5
D T 142 or	REVIT Architecture 1 or	
D T 145 or	Structural Drafting-Steel or	
D T 146 or	Structural Drafting-Concrete or	
D T 147	Structural Drafting-Wood	4
# D T 231 or	Mechanical Design (CADD)I or	
	Three credits of the Human Relations	
	Related Instruction requirement on page 56	3-7
D T 241 or	Architectural Drafting 2 or	
D T 225	Civil Drafting 2	4
# Engl 109 or	Writing for Trades and Professional/Technical	
	Degrees or	
Engl 128	Research Writing: Science/Engineering/Business	5
# Math 116T or	Technical Math 2 or	
Math& 142 or	Precalculus 2 or	
Math& 151	Calculus I	5

Electives: Students must choose from the following courses to total 74 credits.

Carp	Any Carpentry course(s)	(1-8)
	Except Carp 146, Blueprint Reading)	
Coop 171	Work Experience Seminar	(1)
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-Drafting	(1-5 ea)
D T 200	ADDA Certification Preparation	(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)
GIS 121	Introduction to GIS	(5)
GIS 260	Cartography-Based GIS	(5)
Engr& 214 or	Statics or	
I E 204	Statics and Strengths	(5)

Satisfies related instruction requirements.

**Design Technology –
Civil Drafting Proficiency
Certificate of Proficiency
40-42 Credits**

Contact: Terry Waagan, ext. 4342 Felix Serna, ext.4321
 twaagan@greenriver.edu fserna@greenriver.edu

Dept./No.	Course Title	Credits
Core Requirements:		
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 105 or	Design Drafting Careers or	
Tech 100	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:		
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)

**Design Technology –
Drafting Proficiency
Certificate of Proficiency
39-44 Credits**

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Dept./No.	Course Title	Credits
Core Requirements:		
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 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)
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	Intermediate Inventor	(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 - Solids	(5)
I E 215	CATIA - 3-D Surfacing	(4)

**Design Technology –
Mechanical CAD Proficiency
Certificate of Proficiency
35-36 Credits**

Contact: Terry Waagan, ext. 4342 Felix Serna, ext.4321
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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	(3)
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	3-D CADD/CAM	7
D T 231	Mechanical Design-CADD	7

**Design Technology –
Mechanical 3-D CAD
Certificate of Proficiency
43-44 Credits**

Contact: Terry Waagan, ext. 4342 Felix Serna, ext.4321
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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 113 or	Introduction to SolidWorks or	
D T 236	Introduction to Inventor	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

**Design Technology –
Mechanical Drafting
Certificate
74-76 Credits**

This certificate program develops entry-level board drafting and computer-aided drafting skills in mechanical drafting and design. 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 working 2-D and 3-D drawings of objects for fabrication with AutoCAD, KeyCreator, and Mastercam application software. Throughout this course of study, students 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 Felix Serna, ext.4321
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Dept./No.	Course Title	Credits
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 Professional/Technical Degrees or	
Engl 128	Research Writing: Science/Engineering/Business	5
Indus 102.1 or	Welding Survey 1 or	
Mfg 111 and	Measuring Systems and Quality Assurance Level 1 and	
Mfg 114 or	Manufacturing Planning and Processes Level 1 or	
Mfg 111 and	Measuring Systems and Quality Assurance Level 1 and	
Mfg 155	Advanced Manufacturing Processes	3-4
# Math 116T or	Technical Math 2 or	
Math& 142 or	Precalculus 2 or	
Math& 151	Calculus I	5
Electives:		
Coop 171	Work Experience Seminar	(1)
D T 113	Introduction to SolidWorks	(4)
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	(1-5)
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	Intermediate Inventor	(3)
D T 277-279	Drafting Work Experience 4-6	(3 ea)
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 – Solids	(5)
I E 215	CATIA – 3-D Surfacing	(4)

Satisfies related instruction requirements.

**Design Technology –
Structural Drafting**
Certificate of Proficiency
38-42 Credits

Contact: Terry Waagan, ext. 4342 Felix Serna, ext.4321
twaagan@greenriver.edu fserna@greenriver.edu

Dept./No.	Course Title	Credits
Core Requirements:		
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
Complete a minimum of two (2) classes from the following courses: 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)
Complete a minimum of two (2) classes from the following courses: 7-10		
Carp 151	International Residential Code	(3)
Carp 152	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)

Early Childhood Education
Associate in Applied Arts Degree
95-99 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. 4555
dholz@greenriver.edu kessler@greenriver.edu

Dept./No.	Course Title	Credits
# B A 145 or	Business Computation or	
Bus E 110	Business Math Applications or	
	any Acomp 100 or	
	Math course 100 or higher	3-5
# Cmst& 210 or	Interpersonal Communication or	
Cmst& 220	Public Speaking	5
ECE 101	Introduction to Early Childhood Education	5
ECE 175	Music and Movement Activities	3
ECE 205	Learning Environments	3
ECE 235	Child, Family and Community Relationships 3	
ECE 250	Early Childhood Education Final Practicum 1	
Edec 102	Computers in Education	3
Edec 130	Guidance and Discipline	3

Edec 140	Health, Safety and Nutrition	3
Edec 150	Multicultural Language Arts P-3	3
Edec 155	Exploring Science and Math P-3	5
Edec 160	Art for Children	3
Edec 200	Curriculum Development in Literacy	2
Edec 243	Creative Teaching of the Young Child	5
Educ& 115	Child Development	5
Educ& 204	Exceptional Child	5
Educ 240	Multicultural/Anti-Bias Issues in Education	3-5
# Engl& 101	English Composition I	5

Select 12 credits from the following practicum classes: 12

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

Electives or Areas of Specialization 15

Any ECE, Edec, 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
Students must choose from the following courses to total 44 credits:		
ECE 101	Introduction to Early Childhood Education	5
ECE 103	Early Childhood Education Practicum 1	3
ECE 104	Early Childhood Education Practicum 2	3
Edec 102	Computers in Education	3
Educ 110.1 and	The Developing Child: Birth to Three and	3
Educ 110.2	Preschool and School-Age Development	2
Edec 130	Guidance and Discipline	3
Edec 140	Health, Safety and Nutrition	3
Educ 240	Multicultural/Anti Bias Issues in Education	3-5

Electives or Areas of Specialization 14-16
Any ECE, Edec **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

Electives or Areas of Specialization

- Any ECE, Edec, **or** Educ class numbered 100 **or** higher. Students wishing to specialize in Montessori Education may take the Montessori practicum: ECE 181, 182, and 256 instead of ECE 103 – 104, ECE 103.1, ECE 104.1, and 214 and 215 for a total of 12 credits.
- Any combination of ECE 103, 103.1, 104, 104.1, 181, 182, 210, 214, 215, 256 and Educ 210 may be taken to satisfy practicum classes for this certificate.
- Educ 210 may substitute for ECE 103 and 104 (6 credits of practicum), **or** may be used as an elective.
- Students may substitute Educ& 115 Child Development for Educ 110.1 and 110.2

Early Childhood Education – Early Childhood Assistant Teacher

Certificate of Proficiency
27-28 Credits

This certificate program is an introduction to early learning including methods of interacting with young children in the areas of art, music and movement. This certificate also 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.

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

Dept./No.	Course Title	Credits
ECE 100	Basic STARS Training	2
ECE 101	Introduction to Early Childhood Education	5
ECE 103 or ECE 103.1 or	Early Childhood Education Practicum 1 or Child Development Assistant Practicum 1 or	(3) (3)
ECE 181 or ECE 182	Montessori Practicum 1 or Montessori Practicum 2	(4) (4)
ECE 175	Music and Movement Activities	3-4 3
Educ& 115 or Educ 110.1 and Educ 110.2	Child Development or The Developing Child-Birth to Three and Preschool and School-Age Development	(5) (3) (2)
Edec 130	Guidance and Discipline	3
Edec 140	Health, Safety and Nutrition	3
Edec 160	Art for Children	3

Early Childhood Education – Child Development Associate Preparation (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 Child Development Associate (CDA) examination, which leads to a nationally recognized CDA credential. The 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
cbenteu@greenriver.edu

Dept./No.	Course Title	Credits
ECE 120	Introduction to CDA	5
ECE 190	CDA Course Content	5
ECE 200	CDA Work Ethics	5
ECE 260	CDA Performance Documentation	5
Recommended Supplemental Courses:		
ECE 103.1	Child Development Assistant Practicum 1	3
ECE 104.1	Child Development Assistant 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, this 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
Students must choose from the following courses to total 44 credits:		
ECE 101 or Educ& 205	Introduction to Early Childhood Education or Introduction to Education with Field Experience	5 5
Edec 102	Computers in Education	3
Edec 130	Guidance and Discipline	3
Edec 140	Health, Safety and Nutrition	3
Edec 190	The Role of the Paraeducator	2
Edec 194	Special Topics–School Orientation	1
Edec 195	Special Topics–Alcohol and Drug Awareness	1
Edec 196	Special Topics–Test Administration and Scoring	1
Edec 200	Curriculum Development in Literacy	2
Edec 245	Challenging Behaviors in Young Children	2
Edec 293	Issues of Child Abuse	2
Educ& 115 or Educ 110.1 and Educ 110.2	Child Development or The Developing Child: Birth to Three and Preschool and School-Age Development	(5) (3) (2)
Educ& 204	Exceptional Child	5
Edec 210	Assisting Practicum	6
Edec 240	Multicultural/Anti-Bias Issues in Education	3-5

Early Childhood Education – Montessori Teaching

Certificate of Proficiency
34 Credits

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

Dept./No.	Course Title	Credits
ECE 181	Montessori Practicum 1	4
ECE 182	Montessori Practicum 2	4
ECE 211	Introduction to Montessori	4
ECE 212	Montessori 2	4
ECE 213	Montessori 3	4
ECE 265	Supervised Montessori Teaching	4
Edec 294	Special Topics: Montessori	5
Educ& 115	Child Development	5

Forensic Technology

Associate in Applied Science Degree
113-114 Credits

This degree program answers the need for trained individuals who wish to gain employment in areas such as police support, crime scene investigations, fingerprint and trace evidence examination. 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, odontology, trace evidence (hair, fibers, glass, etc.), documentary evidence, ballistics, explosives, accelerates, and fingerprint examination.

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

Contact: Ron Riley, ext. 4859
rriley@greenriver.edu

Dept./No.	Course Title	Credits
AP 103	Essentials of Human Anatomy-Physiology 1	5
AP 104	Essentials of Human Anatomy-Physiology 2	5
Anth& 205	Biological Anthropology	5
Biol& 100	Survey of Biology	5
# Cmst& 210	Interpersonal Communication	5
# Cmst& 220	Public Speaking	5
# Engl& 101	English Composition I	5
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Sciences or	
Engl 128	Research Writing: Science/Engineering/Business	5
# Math& 107	Math in Society or any college level Math course	5
P E 101 or	Physical Fitness Lab or	(2)
P E 102 or	Jogging or	(2)
P E 103 or	Total Physical Fitness or	(3)
P E 111 or	Aerobic Walking or	(2)
P E 149 or	CORE Training for Health or	(2)
P E 131 or	Weight Training or	(2)
P E 160 or	Exercise and Nutrition or	(3)
P E 165 or	Exercise and Health or	(3)
P E 169	Fitness and Health	(3) 2-3
P E 113	Group Dynamics Activities	1
Phil 115 or	Reasoning in Everyday Life or	
Phil 160	Introduction to the Philosophy of Science	5
Photo 101	Beginning Black and White Photography	5
Photo 111	Beginning Digital Photography	5
Psyc& 100	General Psychology	5
Psyc& 220	Abnormal Psychology	5

Required core classes: (25 credits)

Anth& 236	Forensic Anthropology	5
CJ &101	Introduction to Criminal Justice	5
CJ 115	Fingerprint Science	5
CJ 200	Individual Rights in Criminal Justice	5
CJ 205 or	Criminal Evidence or	
CJ& 240	Introduction to Forensics Science	5

Electives, select any three classes (15 credits maximum)

Bus E 140	Records Management	(5)
Bus E 250	Office Administration	(5)
CJ& 105	Introduction to Corrections	(5)
CJ& 110	Criminal Law	(5)
CJ 177 and	Criminal Justice Work Experience 1 and	(5)
Coop 171	Work Experience Seminars	(1)
CJ 220	Multicultural Diversity in Criminal Justice	(5)
CJ 236	Community-Oriented Policing	(5)
CJ 294	Special Topics-Criminal Justice	(5)
CJ 299	Independent Study-Criminal Justice	(5)
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 higher in all criminal justice classes.

Forensic and Fingerprint Technology
Certificate of Proficiency
40 Credits

Green River Community College is one of the few colleges that offer training to become a Fingerprint Technician. This short-term certificate can be completed in just two 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 afforded great opportunity for immediate employment with local law enforcement agencies.

Contact: Ron Riley, ext. 4859
rriley@greenriver.edu

Dept./No.	Course Title	Credits
Bus E 140	Records Management	5
Bus E 250	Office Administration	5
CJ& 101	Introduction to Criminal Justice	5
CJ 115	Fingerprint Science	5
CJ 200	Individual Rights in Criminal Justice	5
CJ 205 or	Criminal Evidence or	
CJ& 240	Introduction to Forensics Science	5
Engl& 101	English Composition I	5
Photo 111	Beginning Digital Photography	5

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

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

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

Geographic Information Systems
Associate in Applied Science Degree
102-107 Credits

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

Contact: Sabah Jabbouri, ext.4854
sjabbouri@greenriver.edu

Dept./No.	Course Title	Credits
FIRST YEAR		
Fall Quarter		
GIS 102	Exploring GIS Spatial Technology	3
GIS 121	Introduction to GIS	5
# Math 115T or	Natural Resources Algebra-Trigonometry or	
Math 116T or	Technical Math 2 or	
Math& 141 or	Precalculus I or	
Math 147	Finite Math for Business and Social Science	5
# Natrs 172	Computer Applications Overview	4

Winter Quarter		
# Engl& 101 or Engl 109 or	English Composition I or Writing for Trades and Professional/Technical Degrees or	
Engl 128	Research Writing: Science/Engineering/Business	5
Geog 120 or Natsr 270	Introduction to Physical Geography or Stream and Wetland Ecology	5
GIS 141	Spatial Statistics	3
GIS 260	Cartography Based-GIS	5
Spring Quarter		
Bus E 185	Introduction to Microsoft Access	5
GIS 220	GIS Modules Analyst	5
Electives	Any course	5-10
SECOND YEAR		
Fall Quarter		
D T 110	Introduction to AutoCAD	4
GIS 250	Data and Spatial Database Design	5
Natsr 117	Aerial Photography Uses and Ground-Based Mapping	2
Electives	Any course	5
Winter Quarter		
# Cmst& 210 or Cmst& 220	Interpersonal Communication or Public Speaking	5
GIS 202	GIS Fundamentals and Theory	5
GIS 255	Introduction to GIS Programming	5
GIS 291	GIS Project Planning	2
Spring Quarter		
GIS 270	GIS in the Field 1	5
GIS 292	GIS Project	5
GIS 177-179 and Coop 171	GIS Work Experience 1-3 and Work Experience Seminar	8 1

Satisfies related instruction requirements.

Geographic Information Systems Certificate of Proficiency 43 Credits

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

Contact: Sabah Jabbouri, ext.4854
sjabbouri@greenriver.edu

Dept./No.	Course Title	Credits
Fall Quarter		
GIS 102	Exploring GIS Spatial Technology	3
GIS 121	Introduction to GIS	5
GIS 250	Data and Spatial Database Design	5
Winter Quarter		
GIS 141	Spatial Statistics	3
GIS 202	GIS Fundamentals and Theory	5
GIS 260	Cartography Based-GIS	5
GIS 291	GIS Project Planning	2
Spring Quarter		
GIS 220	GIS Modules Analyst	5
GIS 270	GIS in the Field	5
GIS 292	GIS Project, Management and Implementation	5

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

Natsr 117	Aerial Photography Uses and Ground-based Mapping	2
GIS 177-179 and Coop 171	GIS Work Experience 1-3 and Work Experience Seminar	8 1

Information Technology Help Desk Support Technician Certificate of Proficiency 44 Credits

This certificate program is designed to prepare students for entry-level employment as a help-desk technician or technical support specialist.

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

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

Students can also earn the Computer Support Specialist, Associate in Applied Science-Transfer degree (AAS-T). See page 51.

Contact: Alan Carter, ext. 4630 Gus Gomez, ext. 4309
acarter@greenriver.edu ggomez@greenriver.edu

Dept./No.	Course Title	Credits
Bus E 132	Business Communication Applications	5
IT 101	Introduction to Computer Science	5
IT 110	PC Support Technician 1	5
IT 115	PC Support Technician 2	5
IT 116 or Bus E 266	PC Support Technician 3 (Windows Applications) or Inside Microsoft Office	5
IT 130	Introduction to Networking	5
IT 140	Customer Service for IT Professionals	5
IT 160	Microsoft Windows (Current version) Server Implementation	5
IT 171	IT Work Experience Seminar	1
IT 178	Help Desk Work Experience	3

IT Information Assurance Technician Certificate of Proficiency 54-59 credits

This certificate program prepares students for entry-level employment as a computer security specialist or information assurance technician. It is also useful for established IT professionals who want to add the information assurance specialty to their credentials.

Information assurance is one of the fastest growing and most challenging specialty areas in information technology. Computer security specialists and information assurance technicians educate end users about security; implement security configurations, including hardening servers and client computers; monitor the network for attempted and actual security breaches; and respond to attacks.

Key topics in this certificate program include networking, network security, information assurance, and securing wireless networks. Students in this program also gain real-world network security work experience.

Students can also earn an Information Assurance Associate in Applied Science-Transfer degree in Information Assurance (AAS-T). See page 52.

Contact: Alan Carter, ext. 4630 Gus Gomez, ext. 4309
 acarter@greenriver.edu ggomez@greenriver.edu

Dept./No.	Course Title	Credits
# Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
# Engl& 101	English Composition I	5
# Math& 107 or	Math in Society or	
Math& 141 or	Precalculus 1 or	
Math& 142 or	Eligible for Math& 142 or	
Math 147	Finite Math for Business and Social Science	0-5
IT 130	Introduction to Networking	5
IT 135	Introduction to Network Security	5
# IT 140	Customer Service for IT Professionals	5
IT 160	Microsoft Windows (Current version) Server Implementation	5
IT 171	IT Work Experience Seminar	1
IT 179	Network Security Work Experience	3
IT 215	Information Assurance	5
IT 216	Implement Firewalls	5
IT 280	Design and Implement Network Security	5
IT 285	Implement and Secure Wireless Networks	5

Satisfies related instruction requirements.

IT Network Technician Certificate of Proficiency 51-56 Credits

This certificate program prepares students for entry-level employment as a network technician or systems administrator. It is also useful for established IT professionals who want to add the network technician specialty to their credentials.

Network technicians install, support, and maintain an organization's network infrastructure. They also troubleshoot problems and monitor the network to ensure that performance and availability standards are met. In addition, systems administrators may plan and implement network security.

Key topics in this certificate program include: networking, network security, managing Cisco routers and switches, administering Microsoft Windows Directory Services, and implementing and securing wireless networks. Students in this program also gain real-world network management work experience.

Students can also earn an Associate in Applied Science -Transfer degree in Networking (AAS-T). See page 52.

Contact: Alan Carter, ext. 4630 Gus Gomez, ext. 4309
 acarter@greenriver.edu ggomez@greenriver.edu

Dept./No.	Course Title	Credits
# Cmst& 210 or	Interpersonal Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 230	Small Group Communication	5
# Engl& 101	English Composition I	5
# Math& 107 or	Math in Society or	
Math& 141 or	Precalculus 1 or	
Math& 142 or	Eligible for Math& 142 or	
Math 147	Finite Math for Business and Social Science	0-5
IT 130	Introduction to Networking	5
IT 132	Structured Cabling	2
IT 135	Introduction to Network Security	5
# IT 140	Customer Service for IT Professionals	5
IT 160	Microsoft Windows (Current version) Server Implementation	5
IT 171	IT Work Experience Seminar	1

IT 181	Network Management Work Experience	3
IT 210	Manage Cisco Routers and Switches	5
IT 240	Manage MS Windows (Current version) Network Environment	5
IT 285	Implement and Secure Wireless Networks	5

IT PC Repair Technician Certificate of Proficiency 26 Credits

This certificate program prepares students for entry-level employment in the information technology industry as a computer service technician. Computer service technicians, also called PC hardware technicians, install and configure hardware, operating systems, and applications on computers. They also diagnose and repair or resolve computer hardware and software problems, and perform preventive maintenance and basic networking tasks. They may also work on keyboards, monitors, printers, and mice. This certificate program provides students with a broad introduction to computer science topics, including operating systems, Microsoft Office applications, networking, and the Internet. The program has a strong emphasis on PC technical support, and includes hands-on training on hardware and software troubleshooting. In addition to technical knowledge and skills, this program teaches key customer service skills sought by employers. Students in this program also gain real-world help desk work experience.

Contact: Alan Carter, ext. 4630 Gus Gomez, ext. 4309
 acarter@greenriver.edu ggomez@greenriver.edu

Dept./No.	Course Title	Credits
IT 101	Introduction to Computer Science	5
IT 110	PC Support Technician 1	5
IT 115	PC Support Technician 2	5
IT 140	Customer Service for IT Professionals	5
IT 171	IT Work Experience Seminar	1
† IT 178	Help Desk Work Experience	5

† Students may earn up to 8 credits through co-op classes.

Legal Administrative Assistant Associate in Applied Arts Degree 97-102 Credits

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

Contact: Julie Slettvet, ext 4687 Susan Kolwitz, ext. 4375
 jslettvet@greenriver.edu skolwitz@greenriver.edu

Dept./No.	Course Title	Credit
Activity	Any course under the AA degree Lifetime Fitness/Wellness/Activity area	1+
Bus& 201 or	Business Law or	
Pols& 200	Introduction to Law	5
Bus E 100	Fundamentals of Computers	5
* Bus E 101	Beginning Typing/Keyboarding	5
* Bus E 102	Intermediate Keyboarding	5
Bus E 103	Advanced Keyboarding	5
Bus E 109	Legal Terminology	3
# Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
Bus E 121	Legal Machine Transcription 1	5
Bus E 129	Legal Machine Transcription 2	5
# Bus E 130	Business Correspondence	5

Bus E 132	Business Communication Applications	5
Bus E 140	Records Management	5
Bus E 150	Introduction to Windows	5
Bus E 177	Business Education Work Experience 1	3
Bus E 201	Legal Production Keyboarding	5
Bus E 235	Legal Office Procedures	4
# Bus E 250	Office Administration	5
Bus E 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 Discussion	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

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

Acct 110 or	Practical Financial Accounting 1 or	
Acct& 201 or	Principles of Accounting I or	
Bus E 090	Office Accounting	5
Bus& 101 or	Introduction to Business or	
Bus 164	Entrepreneurship and Small Business Management	5
Bus& 201 or	Business Law or	
Pols& 200	Introduction to Law	5
Behsc 190	Stress Management	5
Bus 166	Human Relations and Work Readiness	5
Bus E 107 and/or	Typing Speed and Accuracy 1 and/or	
Bus E 108	Typing Speed and Accuracy 2	4-8
Bus E 111	Personal Computing	3
o Bus E 115	Professional Image Building	1
Bus E 119 or	MOS Core and Expert Certification Preparation or	
Bus E 119.1-119.7	Prep Tests: Microsoft Access, Excel, PowerPoint or Word	1-7
Bus E 162 or	Introduction to Excel or	
Bus E 163	Advanced Excel	5
Bus E 175	Instructor Assistant	1-5
† Bus E 178-179	Business Education Work Experience 2-3	2-10
Bus E 184	Internet and Basic Web Design	5
Bus E 185	Introduction to Microsoft Access	5
Bus E 214	Introduction to Information Security	5
Bus E 255	Advanced Word	5
Engl 105	Grammar and Usage	5
Psyc& 100	General Psychology	5
Soc& 101	Introduction to Sociology	5

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

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

Satisfies related instruction requirements.

o Qualifies as AA-DTA activity credit

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

Manufacturing Technology

Associate in Applied Science Degree

108 Credits

This is a two-year degree program that prepares students for employment in the metalworking industry. A graduate of the program will be able to perform simple layout, work from planned sequence of operations, and set up and operate conventional machine tools with a minimum of supervision. More advanced students will have proficiencies in areas of Computerized Numerical Control (CNC) programming and machine operations.

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.

Suggested first quarter classes for beginning Manufacturing Technology students are:

- Mach 101
- Acomp 100T
- Mach 167 - Blueprint Reading

Note: Students whose primary language is not English must pass ESOL Level 3 before enrolling in the Manufacturing Technology Program.

Contact: Tom Tagliente, ext. 4228 Paul Mueller, ext. 2635
 ttaglien@greenriver.edu pmueller@greenriver.edu

Dept./No.	Course Title	Credits
# Acomp 100T	Computation for the Trades	5
# Behsc 103 or	Interpersonal Relations or	
Behsc 190 or	Stress Management or	
Bus 166	Human Relations and Work Readiness	5
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 220 or	Public Speaking or	
Cmst& 210	Interpersonal Communications	5
# Engl 109 or	Writing for Trades and Professional/Technical Degrees or	
Engl& 101 or	English Composition I or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Sciences or	
Engl 128	Research Writing: Science/Engineering/Business	5
I E 189	Basic Metallurgy	4
Indus 102.1	Welding Survey 1	3
Mach 101	Beginning Machining	13
Mach 102	Intermediate Machining	13
Mach 103	Advanced Machining	13
Mach 104	Precision Machining	13
Mach 105	Beginning CNC	13
Mach 167	Blueprint Reading-Machine Shop	3

Select 13 credits from the following options: 13

Option 1

† Mach 106 or	Intermediate CNC or	(13)
Mach 178 and	CNC Machine Work Experience and	(12)
Coop 171	Work Experience Seminar	(1)

Option 2

† Mach 109 or	Special Machining Practice or	(13)
Mach 177 and	Conventional Machine Work Experience and	(12)
Coop 171	Work Experience Seminar	(1)

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

Bus E 111	Personal Computing	3
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Satisfies related instruction requirements.

† Students are allowed to substitute Mach 177 and Coop 171 for Mach 109 or Mach 178 and Coop 171 for Mach 106. This substitution is by faculty permission only.

Manufacturing Technology
Certificate of Proficiency
44 Credits

Dept./No.	Course Title	Credits
Acomp 100T	Computation for the Trades	5
Mach 101	Beginning Machining	13
Mach 102	Intermediate Machining	13
Mach 103	Advanced Machining	10
Mach 167	Blueprint Reading-Machine Shop	3

Suggested first quarter classes for beginning Machine Technology students are:

Acomp 100T	Computation for the Trades	5
Mach 101	Beginning Machining	13
Mach 167	Blueprint Reading-Machine Shop	3

Medical Office Assistant
Associate in Applied Arts Degree
111-116 Credits

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

Contact: Susan Kolwitz, ext. 4375
 skolwitz@greenriver.edu

Dept./No.	Course Title	Credits
AP 100	Survey of Human Anatomy-Physiology	5
Bus E 100	Fundamentals of Computers	5
* Bus E 102	Intermediate Keyboarding	5
Bus E 103	Advanced Keyboarding	5
# Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
Bus E 122	Medical Machine Transcription	5
# Bus E 130	Business Correspondence	5
Bus E 132	Business Communication Applications	5
Bus E 142	Healthcare Delivery Systems	5
Bus E 143	Medical/Legal Aspects of Health Information	5
Bus E 145	ICD Medical Coding	5
Bus E 150	Introduction to Windows	5
Bus E 177 and	Business Education Work Experience 1 and	3
Coop 171	Work Experience Seminar	1
Bus E 202	Medical Production Keyboarding	5
# Bus E 245	Medical Office Procedures	5
Bus E 266	Inside Microsoft Office	5
# Cmst 100 or	Fundamentals of Oral Communication or	
Cmst& 210 or	Interpersonal Communication or	5
Cmst& 220	Public Speaking	
Engl 108	Medical Terminology	2
Reading	Eligible for Read 104 (as determined by the appropriate COMPASS test score) or completion of Read 094	0-5
Electives: Select 20 credits from the following to total 111-116 credits:		
Acct 110 or	Practical Financial Accounting 1 or	
Acct& 201 or	Principles of Accounting I or	
Bus E 090	Office Accounting	5
Bus& 101 or	Introduction to Business or	
Bus 164	Entrepreneurship and Small Business Management	5
Behsc 190	Stress Management	5
Bus 166	Human Relations and Work Readiness	5
* Bus E 101	Beginning Typing/Keyboarding	5

Bus E 107 and/or	Typing Speed and Accuracy 1 and/or	
Bus E 108	Typing Speed and Accuracy 2	4-8
Bus E 111	Personal Computing	3
° Bus E 115	Professional Image Building	1
Bus E 123	Advanced Medical Machine Transcription	5
Bus E 140	Records Management	5
Bus E 144	Computer Applications in Health Care	5
Bus E 146	CPT Medical Coding	5
Bus E 162 or	Introduction to Excel or	
Bus E 163	Advanced Excel	5
Bus E 175	Instructor Assistant	1-5
† Bus E 178-179	Business Education Work Experience 2-3	2-10
Bus E 214	Introduction to Information Security	5
Bus E 246	Intermediate Medical Coding	5
Bus E 248	Healthcare Reimbursement Methodology	5
Bus E 250	Office Administration	5
Bus E 255	Advanced Word	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 AA-DTA activity credit.

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

Medical Office Manager
Certificate of Proficiency
40 Credits

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

Contact: Julie Slettvet, ext. 4687 Susan Kolwitz, ext. 4375
 jslettvet@greenriver.edu skolwitz@greenriver.edu

Dept./No.	Course Title	Credits
Acct 110	Practical Financial Accounting 1	5
Bus 166	Human Relations and Work Readiness	5
Bus E 130	Business Correspondence	5
Bus E 245	Medical Office Procedures	5
Bus E 266	Inside Microsoft Office	5
Cmst& 210	Interpersonal Communication	5
Electives: Select 10 credits from the following courses to total 40 credits:		
AP 100 or	Survey of Human Anatomy-Physiology or	
AP 102	Bringing Anatomy and Physiology to Life	5
Bus E 100	Fundamentals of Computers	5
Bus E 110	Business Math Applications	5
Bus E 112	Beginning Word	5
Bus E 122	Medical Machine Transcription	5
Bus E 140	Records Management	5
Bus E 142	Basic Concepts of Healthcare Delivery Systems	5
Bus E 143	Medical/Legal Aspects of Health Information	5
Bus E 145	ICD Medical Coding	5
Bus E 146	CPT Medical Coding	5
Bus E 150	Introduction to Windows	5
Bus E 162	Introduction to Excel	5
Bus E 185	Introduction to Microsoft Access	5
Bus E 214	Introduction to Information Security	5
Bus E 250	Office Administration	5
Bus E 255	Advanced Word	5
Engl 108	Medical Terminology	2

Medical Transcriptionist

Certificate of Proficiency

44 Credits

The certificate program provides students an opportunity to develop essential medical transcription skills. After completing this program, students will be qualified to secure employment as a medical transcriptionist in an entry level 1 position. Students in this program must complete all required classes with a grade of 2.0 or higher. Many of these credits may be applied to other Business Education degree programs. Students may enter this program at the beginning of any quarter.

Contact: Susan Kolwitz, ext. 4375
skolwitz@greenriver.edu

Dept./No.	Course Title	Credits
* Keyboarding skill demonstrated at 70 wpm during a 5-minute typing test with 5 or less errors		
AP 100 or AP 102 or AP 103	Survey of Human Anatomy-Physiology or Bringing Anatomy and Physiology to Life or Essentials of Human Anatomy-Physiology 1	5
Bus E 100	Fundamentals of Computers	5
Bus E 112	Beginning Word	5
Bus E 122	Medical Machine Transcription	5
Bus E 123	Advanced Medical Machine Transcription	5
Bus E 124	Medical Transcription Production	5
Bus E 126	Pharmaceutical Basics	2
Bus E 130 or Engl 105	Business Correspondence or Grammar and Usage	5
Bus E 245	Medical Office Procedures	5
Engl 108	Medical Terminology	2
Electives:		
† Bus E 101	Beginning Typing/Keyboarding	5
† Bus E 102	Intermediate Keyboarding	5
* Bus E 107	Typing Speed and Accuracy 1	4
* Bus E 108	Typing Speed and Accuracy 2	4
Bus E 111	Personal Computing	3
Bus E 115	Professional Image Building	1
Bus E 130	Business Correspondence	5
Bus E 132	Business Communication Applications	5
Bus E 145	ICD Medical Coding	5
Bus E 146	CPT Medical Coding	5
Bus E 150	Introduction to Windows	3
Bus E 177 and Coop 171	Business Education Work Experience 1 and Work Experience Seminar	5 1
Bus E 214	Introduction to Information Security	5
Bus E 255	Advanced Word	5
Bus E 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.

* Student unable to meet the minimum typing speed requirement for the certificate may take Bus E 107 and 108 to fulfill the typing test requirement.

Students may choose the advanced computer applications course as an alternative to the introductory application course requirement such as Bus E 255 in place of Bus E 112; Bus E 266 in place of Bus E 100.

An internship opportunity is available to interested students who choose to take Bus E 177 and Coop 171. Thirty hours of work equals 1 credit.

Natural Resources

Associate in Applied Science Degree

120 Credits

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

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

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. See page 55.

Contact: Dick Hopkins Rob Sjogren, ext. 4582
dhopkins@greenriver.edu rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
Complete the following courses as soon as possible, or mix into schedule:		
# Cmst& 220	Public Speaking	5
# Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/Business	5
FIRST YEAR		
Fall Quarter		
Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
Natrs 197	Wildland Recreation	4
Winter Quarter		
Natrs 161	Wildlife Habitat Management	5
# Natrs 180	Natural Resources Measurement	7
Natrs 270	Stream and Wetland Ecology	5
Spring Quarter		
Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Air Photo Interpretation and Remote Sensing	5
Natrs 184	Shrub and Wildflower Identification	5
P E 113	Group Dynamic Activities (taken concurrently with Natrs 181)	1
SECOND YEAR		
Fall Quarter		
Natrs 285	Forest Protection	5
# Natrs 286	Natural Resources Business Principles	5
Natrs 292	Resource Sampling and Appraisal	8
Winter Quarter		
GIS 291	GIS Project Planning	2
Natrs 210	Introduction to Soils	5
Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis	5
Spring Quarter		
Natrs 294	Natural Resources Internship	14

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

Avia 123	Aviation Weather	5
Bus E 100	Fundamentals of Computers	5
Engr 106	Introduction to Engineering Problems	3
Fores 114	Chainsaw Operation and Maintenance	1
GIS	Any GIS Class	2-5
HL Ed 190	Standard First Aid/CPR	3
Natrs 121	Introduction to Community Forestry	4
Natrs 122	Urban Ecology	3
Natrs 123	Landscape Planning and Practices	3
Natrs 130	Wildland Firefighter Training I-100 and S-130/190	4
Natrs 134	Intermediate Wildland Fire Behavior S-290	3
Natrs 162	Biology and Conservation of Birds	3
Natrs 198-199	Independent Study-Natural Resources 1-2	1-5
Natrs 297-299	Independent Study-Natural Resources 4-6	1-5
St Sk 110	College Success Strategies	5

Satisfies related instruction requirements.

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

Natural Resources – Geographic Information Systems Option Associate in Applied Science Degree 115 Credits

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

Contact: Sabah Jabbouri, ext. 4854 Dick Hopkins, ext. 4509
 sjabbouri@greenriver.edu dhopkins@greenriver.edu
 Rob Sjogren, ext. 4582
 rsjogren@greenriver.edu

Dept./No	Course Title	Credits
FIRST YEAR		
Fall Quarter		
# Engl& 101	English Composition I	5
GIS 121	Introduction to GIS	5
Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Winter Quarter		
GIS 260	Cartography-Based GIS	5
# Natrs 180	Natural Resources Measurement	7
Natrs 270	Stream and Wetland Ecology	5
Spring Quarter		
GIS 220	GIS Modules Analyst	5
Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Aerial Photo Interpretation and Remote Sensing	5
P E 113	Group Dynamic Activities (taken concurrently with Natrs 181)	1
SECOND YEAR		
Fall Quarter		
GIS 250	Data and Spatial Database Design	5
Natrs 285	Forest Protection	5
# Natrs 286	Natural Resources Business Principles	5
Natrs 292	Resource Sampling and Appraisal	8

Winter Quarter

# Cmst& 220	Public Speaking	5
Engl 128	Research Writing: Science/Engineering/Business	5
GIS 202	GIS Fundamentals and Theory	5
GIS 291	GIS Project Planning	2
Natrs 290	Internship Seminar	1

Spring Quarter

GIS 270	GIS in the Field 1	5
Natrs 294	Natural Resources Internship	14

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

Bus E 101	Beginning Typing/Keyboarding	5
Fores 114	Chainsaw Operation and Maintenance	1
Geog 120	Introduction to Physical Geography	5
HL Ed 190	Standard First Aid CPR	3
Natrs 198-197 or Natrs 297-299	Independent Study-Natural Resources 1-2 or Independent Study-Natural Resources 4-6	1-5
St Sk 110	College Success Strategies	5

Satisfies related instruction requirements.

Natural Resources – Park Management Associate in Applied Science Degree 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.

Contact: Dick Hopkins, ext. 4509 Rob Sjogren, ext. 4582
 dhopkins@greenriver.edu rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
Complete the following courses as soon as possible, or mix into schedule:		
# Cmst& 220	Public Speaking	5
# Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/Business	5
FIRST YEAR		
Fall Quarter		
Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
Natrs 197	Wildland Recreation	4
Winter Quarter		
Natrs 161	Wildlife Habitat Management	5
# Natrs 180	Natural Resources Measurement	7
Natrs 270	Stream and Wetland Ecology	5
Spring Quarter		
Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Air Photo Interpretation and Remote Sensing	5
Natrs 184	Shrub and Wildflower Identification	5
P E 113	Group Dynamic Activities (taken concurrently with Natrs 181)	1
SECOND YEAR		
Fall Quarter		
Geol& 101	Introduction to Physical Geology	5
Natrs 285	Forest Protection	5
# Natrs 286	Natural Resources Business Principles	5

Winter Quarter

GIS 291	GIS Project Planning	2
Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis	5
Soc& 101	Introduction to Sociology	5

Spring Quarter

Natrs 294	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
Bus E 100	Fundamentals of Computers	5
Fores 114	Chainsaw Operation and Maintenance	1
Geol 200	Geological Investigation of National Parks	5
Geol& 208	Geology of Pacific Northwest	5
GIS	Any GIS course	2-5
HI Ed 190	Standard First Aid/CPR	3
Natrs 121	Introduction to Community Forestry	4
Natrs 122	Urban Ecology	3
Natrs 123	Landscape Planning and Practices	3
Natrs 162	Biology and Conservation of Birds	3
Natrs 198-199	Independent Study-Natural Resources 1-2	1-5
Natrs 271	Stream and Wetland Restoration	5
Natrs 292	Resource Sampling and Appraisal	8
Natrs 297-299	Independent Study-Natural Resources 4-6	1-5
St Sk 110	College Success Strategies	5
Other	Small Engine Repair, Basic Carpentry, Plumbing Wiring	

Satisfies related instruction requirements.

Note:

1. 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.
2. 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 –
Water Quality
Associate in Applied Science Degree
118 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 by physical, biological, and chemical parameters. They identify plants and animals using taxonomic keys. They assist with wetland delineation and GPS/map their location. Graduates also apply and follow environmental regulations regarding stream and wetland protection.

Contact: Dick Hopkins, ext. 4509 Rob Sjogren, ext. 4582
dhopkins@greenriver.edu rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
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Complete the following courses as soon as possible, or mix into schedule:

# Cmst& 220	Public Speaking	5
# Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/Business	5

FIRST YEAR

Fall Quarter

Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
Natrs 197	Wildland Recreation	4

Winter Quarter

Fores 114	Chainsaw Operation and Maintenance	1
Natrs 161	Wildlife Habitat Management	5
# Natrs 180	Natural Resources Measurements	7
Natrs 270	Stream and Wetland Ecology	5

Spring Quarter

Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Air Photo Interpretation and Remote Sensing	5
Natrs 184	Shrub and Wildflower Identification	5
Natrs 271	Stream and Wetland Restoration	5
P E 113	Group Dynamic Activities (taken concurrently with Natrs 181)	1

SECOND YEAR

Fall Quarter

Natrs 272	Fish Identification and Habitat	5
Natrs 285	Forest Protection	5
# Natrs 286	Natural Resources Business Principles	5

Winter Quarter

GIS 291	GIS Project Planning	2
Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis	5

Spring Quarter

Natrs 294	Natural Resources Internship	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 course	GIS	3-8
Avia 123	Aviation Weather	5
Engl 100	Fundamentals of Computers	5
Geog 120	Introduction to Physical Geography	5
HI Ed 190	Standard First Aid/CPR	3
Natrs 121	Introduction to Community Forestry	4
Natrs 122	Urban Ecology	3
Natrs 123	Landscape Planning and Practices	3
Natrs 162	Biology and Conservation of Birds	3
Natrs 198-199	Independent Study-Natural Resources 1-2	1-5
Natrs 292	Resource Sampling and Appraisal	8
Natrs 297-299	Independent Study-Natural Resources 4-6	1-5
St Sk 110	College Success Strategies	5

Satisfies related instruction requirements.

Note:

1. 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.
2. 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 –
Wildland Fire**
Associate in Applied Science Degree
115 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.

Contact: Dick Hopkins, ext. 4509 Rob Sjogren, ext. 4582
dhopkins@greenriver.edu rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
Complete the following courses as soon as possible, or mix into schedule:		
# Engl& 101	English Composition I	5
Engl 128	Research Writing: Science/Engineering/Business	5
FIRST YEAR		
Fall Quarter		
Natrs 100	Introduction to Natural Resources	5
Natrs 172	Computer Applications Overview	4
Natrs 183	Tree and Shrub Identification	5
Winter Quarter		
Fores 114	Chainsaw Operation and Maintenance	1
Natrs 161	Wildlife Habitat Management	5
# Natrs 180	Natural Resources Measurements	7
Natrs 270	Stream and Wetland Ecology	5
Spring Quarter		
Natrs 130	Wildland Firefighter Training I-100 and S-130/190	4
Natrs 134	Intermediate Wildland Fire Behavior S-290	3
Natrs 181	Forest Navigation and Mapping	8
Natrs 182	Air Photo Interpretation and Remote Sensing	5
P E 113	Group Dynamics Activity (Taken concurrently with Natrs 181)	1
Summer Quarter: Wildfire experience required		
SECOND YEAR		
Fall Quarter		
# Cmst& 220	Public Speaking	5
Natrs 285	Forest Protection	5
# Natrs 286	Natural Resources Business Principles	5
Winter Quarter		
GIS 291	GIS Project Planning	2
Natrs 131	Advanced Wildland Firefighter Training S-131	1
Natrs 132	Wildland Firefighter Crew Boss S-230	2
Natrs 133	Wildland Firefighter Engine Boss S-231	1
Natrs 284	Road and Trail Engineering	6
Natrs 290	Internship Seminar	1
Natrs 293	Silvicultural Analysis	5
Spring Quarter		
Natrs 184	Shrub and Wildflower Identification	5
Natrs 294	Natural Resources Internship	14
To enhance the student's preparation for future employment, the following are recommended:		
Avia 123	Aviation Weather	5
Bus E 100	Fundamentals of Computers	5
Engr 106	Introduction to Engineering Problems	3
GIS	Any GIS course	2-5
HI Ed 190	Standard First Aid/CPR	3
Natrs 162	Biology and Conservation of Birds	3
Natrs 197	Wildland Recreation	4
Natrs 198-199	Independent Study-Natural Resources 1-2	1-5

Natrs 292	Resource Sampling and Appraisal	8
Natrs 297-299	Independent Study-Natural Resources 4-6	1-5
Phys 110	Introduction to College Physics	5
St Sk 110	College Success Strategies	5

Satisfies related instruction requirements.

Note:

1. 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.
2. 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 –
Community Forestry**
Certificate
35 Credits

This certificate program prepares graduates to work in vocations requiring skills and knowledge to protect and manage green spaces, parks, recreation areas, riparian zones, wetlands, wildlife management areas, and forest reserves in urban and suburban environments.

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

Contact: Dick Hopkins, ext. 4509 Rob Sjogren, ext. 4582
dhopkins@greenriver.edu rsjogren@greenriver.edu

Dept./No.	Course Title	Credits
Fall Quarter		
Natrs 121	Introduction to Community Forestry	4
Natrs 183	Tree and Shrub Identification	5
Winter Quarter		
Fores 114	Chainsaw Operation and Maintenance	1
† Natrs 120 or Natrs 271	Riparian Restoration or Stream and Wetland Restoration	5
Natrs 122	Urban Ecology	3
Natrs 197	Wildland Recreation	4
Natrs 270	Stream and Wetland Ecology	5
Spring Quarter		
Natrs 123	Landscape Planning and Practices	3
* Natrs 184 or * Natrs 185	Shrub and Wildflower Identification or Shrub and Flower Systematics	5

Summer: Work experience

* Students may substitute Natrs 184 for Natrs 185.

† Natrs 271 may be substituted for Natrs 120. Natrs 271 is offered during Spring Quarter only.

Occupational Therapy Assistant

Associate in Applied Science Degree

124-129 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, P. O. Box 31220, 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 800 South Frederick Avenue, Suite 200, Gaithersburg, MD 20877-4150. 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 Community 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 or 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 Web site, www.nbcot.org, under "Forms."

New students are admitted once a year. Level 2 fieldwork requirements must be completed within 18 months of academic courses.

Program Application:

Applications are accepted beginning January 1st for the spring start program and February 15th for the fall program. Applications are accepted until the program is filled. 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 15 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 1 and 2
 - b. English
 - c. Psychology, sociology, or communications studies
3. Submission of a one page statement describing applicant's interest and knowledge in the field.
4. If space permits, students may opt to complete the OTA program on a part-time basis over the course of 10 quarters. In this case students will follow a prescribed course sequence as directed by the OTA Program advisor.

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 Community 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: Noel Hepler, ext. 4341 Jennifer Lewis, ext. 4839
 nhepler@greenriver.edu jlewis@greenriver.edu
 Jenny Nybold, ext.4933 Career and Advising Center, ext. 2641
 jnybold@greenriver.edu

Dept./No.	Course Title	Credits
First Quarter		
H Sci 150	Human Life Span Growth and Development	5
O T 100	Introduction to Occupational Therapy	3
O T 110	Fundamentals of OT as Health Care Providers	4
Second Quarter		
H Sci 104	Fundamentals of Gerontology	4
O T 102	Physical Disabilities 1	4
O T 109	Developmental Disabilities	4
Third Quarter		
O T 105	Clinical Seminar 1	1
O T 106	Professional Advocacy Experience	1
O T 108	Psychosocial Dysfunction	5
O T 115	Therapeutic Activities 1	3
O T 116	Physical Disabilities 2	5
O T 177	Application of Occupational Therapy Co-op Experience 1	1
Fourth Quarter		
O T 178	Application of Occupational Therapy Co-op Experience 2	1
O T 202	Ethics, Value and Responsibility in Health Care	3
O T 204	Application of Activities	5
O T 206	Clinical Seminar 2	1
O T 215	Work Place Issues	3
Fifth Quarter		
O T 210	Therapeutic Adaptations	5
O T 211	Pre-Fieldwork Experience Seminar	2
O T 212	Therapeutic Activities 2	3
O T 220	Therapeutic Group Leadership	2
Sixth Quarter		
# O T 250	Fieldwork Experience Seminar 1	1
# O T 277	Co-op Fieldwork Experience 1	12
Seventh Quarter		
# O T 251	Fieldwork Experience Seminar 2	1
# O T 278	Co-op Fieldwork Experience 2	12

Required Supporting Courses:

* Computers	Any Computer Course	0-3
AP 103	Essentials of Human Anatomy and Physiology 1	5
AP 104	Essentials of Human Anatomy and Physiology 2	5
# Cmst& 210 or	Fundamentals of Oral Communication or	
Cmst& 220 or	Interpersonal Communications or	
Cmst& 230	Public Speaking or	
	Small Group Communication	5
# Engl& 101 or	English Composition 1 or	
Engl 109	Writing for Trades and Professional/Technical Degrees	5
# Acomp or	Any Acomp or Math course 100 or higher or	
B A 145 or	Business Computation or	
Bus E 110 or	Business Math Applications or	
Math& 141	Precalculus 1	3-5
Psyc& 100	General Psychology	5
		5
One of the following is required:		
Ames 100	Introduction to Ethnic and Minority Studies	(5)
Anth& 100	Survey of Anthropology	(5)
Anth& 206	Cultural Anthropology	(5)
Anth& 235	Cross-Cultural Medicine	(5)
Cmst 238	Intercultural Communication	(5)
Engl 127	Writing: Social Sciences	(5)
Engl 160	Literature By and About Women	(5)
Geog 108	Introduction to Human Geography	(5)
Geog 200	World Regional Geography	(5)
Human 110	Background for the Humanities	(5)
Human 133	People, Language, Culture	(5)
Human 186	Peoples of the World	(5)
Phil 102	Contemporary Moral Problems	(5)
Phil 110	Social and Political Philosophy	(5)
Soc& 101	Introduction to Sociology	(5)
Soc& 201	Social Problems	(5)
Electives: (Instructor's permission required.)		
O T 194	Special Topics	1-2
O T 198	Independent Study-Occupational Therapy	1

Satisfies related instruction requirements.

* May be waived by program advisor upon demonstration of computer competency.

**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. Please contact the Pre-PTA Program Advisor in the Career and Advising Center at ext. 2641 or the PTA program website at www.instruction.greenriver.edu/PTA for specific information. Requirements are subject to change.

Application Requirements:

The minimum requirements to submit an application for the PTA program include:

- 15-quarter credits in program prerequisite courses which **MUST** include Anatomy/Physiology (AP) 1 AP 103 or BIOL& 241 or course equivalent.
- A minimum grade of 2.0 in each prerequisite course.
- A college-level cumulative grade point average of at least 2.5 (on a 4.0 scale).
- Documentation of at least 20 hours of volunteer experience or job shadow in PHYSICAL THERAPY or employment in physical therapy or a closely-related field (CNA, LMP, personal trainer, RN, etc).

Students may apply for the PTA program while they are completing prerequisite courses IF the above requirements have been completed. There is an application deadline which is published annually, please refer to the program website. Late applications are accepted and qualified applicants are admitted or placed on a waiting list based on space available.

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 GRCC are AP 103 and 104. Biol& 241 (AP I) and Biol& 242 (AP II) also meet this prerequisite. These courses should be completed within 5 years prior to applying to the program and completed at the same institution.
- Speech Communication
The courses meeting this requirement at GRCC include: Cmst 100, 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. Please be advised that Cmst 100 may not transfer to a university.
- English Composition
This requirement may be completed by taking either English Composition I (Engl& 101 or equivalent transferable course) or Writing for Trades/ Professional Technical Degrees (Engl 109). Students who complete an equivalent course of less than 5 quarter credits will not meet this requirement and subsequently be ineligible for graduation. English 126, 127, and 128 at GRCC (or their equivalent) will also meet this requirement. Please be advised that Engl 109 may not transfer to a university (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: Bus E 110, B A 145 or Acomp 100N 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.

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 Web site www.instruction.greenriver.edu/PTA/ or consult the Pre-PTA Program Advisor for the most current information.

Candidates who have not completed all prerequisites at the time of application must submit their plan (see PTA Application) for the completion of the required courses prior to the beginning of the program. Applicants may be considered for provisional acceptance when at least 15 quarter credits including AP 1 are completed with a grade of 2.0 or higher. Candidates who have provisional acceptance must complete AP 2 and any remaining prerequisites with a grade of 2.0 or higher or their standing will be lost. Candidates are considered as fully qualified for acceptance when all prerequisites are completed satisfactorily.

The PTA program complies with the “Child/Adult Abuse Information Act,” RCW 43.43.830 through 43.43.840. Authorization for a 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: Barbara Brucker, ext. 4343 Josh Staffieri, ext. 2641
 bbrucker@greenriver.edu jstaffieri@greenriver.edu

www.greenriver.edu/programs/a-z/info/pta/shtm.

Dept./No.	Course Title	Credits
FIRST YEAR		
Fall Quarter		
H Sci 102	Applied Anatomy	5
P T 101	Introduction to Physical Therapy	3
# P T 102	Therapeutic Interaction in Health Care	2
P T 105	Patient Care Skills	3
Winter Quarter		
H Sci 150	Human Life Span, Growth and Development	5
P T 110	Principles of Physical Therapy Agents 1	5
P T 114	Tests and Measurements	2
P T 130	Survey of Pathophysiology 1	3
Spring Quarter		
H Sci 101	Neuroscience	3
P T 111	Principles of Physical Therapy Agents 2	6
P T 113	Posture and Movement	4
P T 131	Survey of Pathophysiology 2	2
P T 151	Clinical Preparation	1
SECOND YEAR		
Fall Quarter		
P T 112	Functional Training	2
P T 201	Issues in Health Care	3
P T 210	Therapeutic Exercise	5
P T 212	Acute Care	3
# P T 251	Clinical Supervision 1	1
PT 277	Clinical Affiliation 1	1
Winter Quarter		
P T 211	Advanced Rehabilitation Procedures	6
P T 213	Orthopedic Therapy	5
# P T 252	Clinical Supervision 2	1
P T 278	Clinical Affiliation 2	1
Spring Quarter		
# P T 253	Clinical Supervision 3	1
P T 279	Clinical Affiliation 3	7
P T 280	Clinical Affiliation 4	7
Required Supporting Course/Prerequisites:		
# Acomp 100N or Acomp 100T or B A 145 or Bus E 110 or Math	Computation for Practical Nursing or Computation for the Trades or Business Computation or Business Math Applications or Any college-level Math class numbered 100 or higher	3-5
* AP 103 and AP 104	Essentials of Human Anatomy and Physiology 1 and 2	
Biol& 241 and Biol& 242	Human Anatomy and Physiology 1 and 2	10
# Cmst 100 or Cmst& 210 or Cmst& 220 or Cmst& 230 or Cmst 238	Fundamentals of Oral Communication or Interpersonal Communication or Public Speaking or Small Group Communication or Intercultural Communication	5

Engl& 101 or
Engl 109 or

Engl 126 or
Engl 127 or
Engl 128

English Composition 1 or
Writing for Trades and Professional/Technical
Degrees or
Writing: Humanities or
Writing: Social Sciences or
Research Writing: Science/Engineering/Business 5

Satisfies related instruction requirements.

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

Practical Nursing Certificate 103-108 Credits

The certificate program prepares a student to provide safe and efficient nursing care. Health facilities such as hospitals, nursing homes, clinics and public health nursing services employ practical nurses under the supervision of a registered nurse or physician.

A multimedia system of individualized instruction, offering stated objectives with a wide range of learning experiences to accomplish each objective is provided.

The Practical Nursing program is a 103 to 108-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 2.3 is required in each nursing and supporting course. Evidence of academic proficiency is established by completion of each of the following curriculum requirements with a 2.3 grade or higher.

The following courses are required prior to entry into the Practical Nursing program:

- AP 103 and 104, or Biol& 241 and Biol& 242 (10 credits);
- Read 094 or 104, Reading Mastery (5 credits), or college-level reading ability as measured by COMPASS assessment;
- Engl 108, Medical Terminology (2 credits). Placement into Engl 108 is based upon a spelling placement test* or completion of Engl 090, Spelling Improvement; and
- Acomp 100N, Computation for Practical Nurses (3 credits). Placement into Acomp 100N is based on an appropriate COMPASS score or by completion of Math 062 (5 credits).

It is recommended that the remaining curriculum requirements also be taken prior to entry into the core coursework; however, a student may choose to enroll in these courses later in the program:

- Communication Studies (5 credits). Choose from Cmst 100, &210, &220, or &230.
- English Composition (5 credits). Choose from Engl& 101, Engl 109, 126, 127, or 128.

The student is expected to provide his or her own transportation to off-site clinical facilities. In addition to paying for tuition and books, the student is required to purchase a uniform, pin, white shoes, watch, bandage, scissors, and liability insurance. For additional information about a required nursing orientation and the application procedure, contact the Health Science curriculum advisor in the Career and Advising Center at ext. 2639.

Upon successful completion of the required credits, the student will earn a certificate in Practical Nursing. The graduate will be eligible to take the licensing examination and upon passing, practice as a Licensed Practical Nurse. Application for LPN licensure asks information regarding legal convictions, and drug and 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: Julia Short, ext. 4210
jshort@greenriver.edu

Dept./No.	Course Title	Credits
Fall Quarter		
* Nutr& 101	Nutrition	5
Nurse 101	Introduction to Computers in Nursing	1
Nurse 102	Introduction to Clinical Pharmacology in Nursing	3
Nurse 104	Nursing 1 Fundamentals	6
Nurse 105	Community Lab 1	4
# Nurse 116	Nursing Issues and Delivery Systems	3
Nurse 127	Aids/CPR Safety/Inspection Control	2
Winter Quarter		
Nurse 103	Drug Therapy and the Nursing Process	2
Nurse 106	Nursing 2	8
Nurse 107	Nursing 2 – Community Lab 2	8
Nurse 108	Introduction to Computer Case Studies in Nursing	2
Spring Quarter		
H Sci 150	Human Life Span, Growth and Development	5
Nurse 109	Nursing 3 Community Lab 3	8
Nurse 110	Nursing 3	8
Nurse 118	Advanced Computer Case Studies in Nursing	1
Summer Quarter		
# Nurse 112	Nursing 4	6
Nurse 113	Nursing 4 Community Lab 4	6
Curriculum Requirements		
# Acomp 100N	Computation for Practical Nursing	3
AP 103 and 104 or	Essentials of Human Anatomy-Physiology 1 and 2 or	10
Biol& 241 and &242	Human Anatomy-Physiology 1 and 2	
# 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 I or	
# Engl 109 or	Writing for Trades and Professional/Technical Degrees or	
Engl 126 or	Writing: Humanities or	
Engl 127 or	Writing: Social Sciences or	
Engl 128	Research Writing: Science/Engineering/Business	5
Engl 108	Medical Terminology	2
Read 094	Reading Improvement	0-5

Satisfies related instruction requirements.

* May be taken prior to entrance into the Practical Nursing Program.

Practical Nursing – Nurse Assistant
Certificate of Proficiency
36 Credits

Contact: Julia Short, ext. 4210
jshort@greenriver.edu

Dept./No.	Course Title	Credits
Fall Quarter		
Engl 108	Medical Terminology	2
Nutr& 101	Nutrition	5
Nurse 104	Nursing 1 Fundamentals	6
Nurse 105	Community Lab 1	4

Nurse 106	Nursing 2	8
Nurse 107	Nursing 2 Community Lab 2	8
Nurse 116	Nursing Issues and Delivery Systems	3

Wastewater Technology (AAS)

Wastewater Collection Technology
(Certificate of Proficiency)

Municipal Wastewater Treatment Technology
(Certificate of Proficiency)

Water Supply Technology (AAS)

Water Distribution Technology
(Certificate of Proficiency)

These degree and certificate programs are being discontinued at Green River Community College. Students currently in the program may graduate using the degree requirements in effect during their first quarter of enrollment at Green River Community college for up to six years.

Green River offers a similar program in water supply/distribution and wastewater at our Wastewater Environmental Training Center (WETRC). However, at the time this 2009-2011 catalog was published, these programs were undergoing intensive program redesign. For more information on current offerings, please contact Green River Community College's Wastewater Environmental Training Center (WETRC) at (253) 833.9111, ext. 3370, or visit our Web site at <http://www.wetrc.org/>.

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 or 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.

Contact: Scott Schreiber, ext. 4421
sschreiber@greenriver.edu
Jack Danielson, ext. 4257
jdanielson@grcc.ctc.edu

Paul Mueller, ext. 2635
pmueller@grcc.ctc.edu

Dept./No.	Course Title	Credits
First Year		
# 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 Professional/Technical Degrees	5
Weld 141	Basic Arc Welding and Flame	13
Weld 142	Intermediate Arc Welding	13
Weld 143	Advanced Arc Welding	13

Second Year

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
# Human Relations	Any course that satisfies the Related Instruction requirements on page 56	5

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**

Contact: Scott Schreiber, ext. 4421 Jack Danielson, ext. 4257
 sschreiber@greenriver.edu jdanielson@grcc.ctc.edu

Paul Mueller, ext. 2635
 pmueller@grcc.ctc.edu

Dept./No.	Course Title	Credits
Weld 141	Basic Arc and Flame	13
Weld 142	Intermediate Welding	13

**Intermediate Arc and Flame
Certificate of Proficiency
26 Credits**

Contact: Scott Schreiber, ext. 4421 Jack Danielson, ext. 4257
 sschreiber@greenriver.edu jdanielson@grcc.ctc.edu

Paul Mueller, ext. 2635
 pmueller@grcc.ctc.edu

Dept./No.	Course Title	Credits
Weld 142	Intermediate Welding	13
Weld 143	Advanced Arc Welding	13

**Advanced Arc Welding
Certificate of Proficiency
26 Credits**

Contact: Scott Schreiber, ext. 4421 Jack Danielson, ext. 4257
 sschreiber@greenriver.edu jdanielson@grcc.ctc.edu

Paul Mueller, ext. 2635
 pmueller@grcc.ctc.edu

Dept./No.	Course Title	Credits
Weld 194	Special Welding Projects 1	13
Weld 195	Special Welding Projects 2	13

OTHER LEARNING OPTIONS

ASSOCIATE DEVELOPMENT DEGREE (AD)

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 intended for students planning to transfer to a university.

Associate Development Degree Requirements

1. Complete a minimum of 90 credits in the courses offered at GRCC.
 - 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 following options:
 - Option 1:** Complete a Green River certificate program of 45 credits or more.
 - Option 2:** Complete the following:
 - a. 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,
 - b. One course satisfying the quantitative and symbolic reasoning or computation requirement of any degree or program at Green River, and
 - c. 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:
 - a. 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,
 - b. One course satisfying the quantitative and symbolic reasoning or computation requirement of any degree or program at Green River,
 - c. One course satisfying the written or oral communication requirement of any degree or program at Green River, and
 - d. One course satisfying the human relations requirement of any degree or program at Green River learning outcomes aligning 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 each student's record.

GENERAL EDUCATION DEVELOPMENT (GED)

Green River offers GED preparation classes to assist the student 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 a high school release form for classes and for testing. Additional information is available online, in the course description portion of this catalog, and in the quarterly class schedule.

The GED is a high school exiting credential. Those earning a GED certificate pass each of five critical thinking tests: language arts-writing, language arts-reading, social studies, science, and mathematics.

The GED is recognized by many employers and colleges. Ninety-five percent of U.S. colleges and universities recognize the GED 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. Please contact the Assessment and Testing Center at ext. 2650 for days, times and fees.

HIGH SCHOOL DIPLOMA (HS)

Green River Community College offers a complete schedule of courses that meet the requirements for a high school diploma as defined by the Office of the State Superintendent of Public Instruction and the Washington Board of Education. Students complete the required classes to earn a Washington state Diploma. Students can pursue high school credits in one of two ways:

- Students earn credits at Green River and transfer them back to their high school, for a high school awarded diploma.
- Students earn credits at Green River and apply those credits along with your high school credits to a GRCC awarded high school diploma.

See page 100 for a complete schedule of courses that meets the requirements for a high school diploma.

The GRCC high school diploma program is an alternative way to complete high school. Although it is designed for adult students 19 years and older, students 16-18 can participate. Successful students meet state and Green River requirements for graduation and are issued an official State of Washington high school diploma. Students must earn a minimum of 1 credit at Green River to earn a high school diploma. Reduced tuition may be available for those students 19 years or older.

Application Process

Prospective students should:

1. Submit a completed Green River application to Welcome Center, (253) 333-6000.
2. If age 16, 17, or 18, submit a completed high school release form from the high school you would normally be attending. This is a Green River form that high schools typically have. A letter from school district personnel on official school stationary can be substituted.

3. Obtain and submit "official" copies of all previous high school/college transcripts.

Send transcripts to:

Green River Community College
 Enrollment Services/HSC
 12401 SE 320th Street
 Auburn, WA 98092-3622

Hand-carry your "official" transcripts in an unopened envelope that has been sealed by the school where credit was earned.

4. Complete Green River's assessment (COMPASS.) Call (253) 833-9111, ext. 2650, for a recorded message regarding testing hours. There is a fee of \$12.40 for the COMPASS, and picture identification is required to assess writing, reading, and math skills.
5. Depending on a student's assessment/placement scores, college level classes may be taken to fulfill both high school and college degree requirements at the same time. Green River's COMPASS should be taken prior to enrolling in classes.

There is more information on the Green River Community College Web site at www.greenriver.edu/edplanning/hscomp.htm.

High School Diploma Course Articulation

The high school diploma course articulation policy was created to ensure that students are not penalized by the differences in specific requirements imposed by individual districts/campuses within the general guidelines of the Washington state High School Diploma. Its intent is to provide a pathway for acceptance of credit between Washington state high schools and Green River Community College and to limit the need for duplication of credits previously earned.

Policy

If a student transfers an individual course (from a Washington State high school or community and technical college) that meets a specific state high school requirement category at the sending institution, that course is considered to have met that requirement at GRCC, even if this course does not have an exact equivalent. It is the student's responsibility to initiate the articulation process and to gather appropriate documentation from the high school as needed. This is in accordance with OSPI guidelines for acceptance of credit and Washington state High School Diploma requirements.

High School Diploma for Community and Technical College Completion

Green River Community College will grant a high school diploma if requested by a Runrig Start student or a student over 21 years of age who completes an AA, AS, or AAS-T (per SHB 1758).

HIGH SCHOOL DIPLOMA

Washington State High School Requirements	High School Credits (semester)	Green River Community College Requirements for students entering high school classes in Fall 2004 or later.	GRCC Credits (quarter)
English	3	Read 084 or higher, or any Literature class	5
		Engl 081 or any English writing class	5
		Cmst 100 or higher	5
Math	2	Math with 5 of those credits at Math 097 or higher . If the student did not pass the WASL or an alternative assessment, they need additional math credits, as outlined below:	10
		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> Class of 2008: Earn 5 more math credits, at Math 097 or higher, and retake the Math WASL (or other Washington state assessment) </td> <td style="width: 50%; padding: 5px;"> Classes of 2009 to 2012 Earn 10 more math credits, 5 of which are at Math 097 or higher, and retake the Math WASL (or other Washington state assessment) annually. </td> </tr> </table>	Class of 2008: Earn 5 more math credits, at Math 097 or higher, and retake the Math WASL (or other Washington state assessment)
Class of 2008: Earn 5 more math credits, at Math 097 or higher, and retake the Math WASL (or other Washington state assessment)	Classes of 2009 to 2012 Earn 10 more math credits, 5 of which are at Math 097 or higher, and retake the Math WASL (or other Washington state assessment) annually.		
Science	2	5 credits of any lab science course that meets the lab science requirement	10
		5 credits of any science course that meets the general science requirement	
U.S. History	1	Select 5-6 credits from the following: HSC 021 (3 credits) and HSC 022 (3 credits) OR Hist 135, Hist& 136, Hist& 137, Hist 220 (5 credits each)	5-6
Civics and Government	.5	Select 3-5 credits from the following: HSC 025 (3 credits) or Pols& 202 (5 credits)	3-5
Washington State History	.5	Select 5 credits from the following: Hist 024 OR Hist& 214	5
Contemporary World History, Geography, and Problems	1	Select 5-6 credits from the following: HSC 031, 032 (3 credits each) OR Ames 100; Econ 090, 100; Geog 100, 108, 200; Hist 103, 231, 250, &215; Phil 102; Pols 090, &101, &203 or &204; or Soc &101 (5 credits each)	5-6
Health and Fitness	2	Select 10 credits from the following: 5 credits of HI Ed 150 or any combination of the following Physical Education classes to total 5 credits: P E 101, 102, 103, 111, 131, 149, 160, 165 (2-3 credits each) AND 3 credits of HI Ed 190 and 2 credits of any combination of the following Physical Education classes: P E 107, 108, 109, 110, 112, 113, 114, 115, 117, 118, 119, 121, 122, 124, 125, 129, 132, 134, 136, 137, 138, 139, 140, 141, 143, 144, 147, 148, 150, 158, 169, 193, 201, 202, 207, 210, 211, 212, 215, 216, 224, 231, 234, 236, 251, 253 (1-3 credits each)	10
Occupational Education	1	5 credits from any Professional/Technical course	5
Arts	1	5 credits in any Fine Arts or Performing Arts course	5
Culminating Project and Educational Plan		HSC 040 or Engr 100 or Behsc 107 or Tech 100 or other alternative approved by the High School Completion committee. NOTE: Any of the courses above may also count as an elective.	
<p>WASL (Washington Assessment of Student Learning): Satisfactory completion of the WASL or equivalent assessment as identified by the OSPI in accordance with state policies. GRCC may help the student use one of the available options for the WASL.</p> <p><u>CAA Options: Collection of Evidence (CAA)</u></p> <ol style="list-style-type: none"> SAT scores: Math 470, Reading 350, Writing 380; or ACT scores: Math 19; Reading 13, Writing (unavailable at this time) <p><u>Transfer students from out of state or out of country who transfer in during their junior or senior year may:</u></p> <ul style="list-style-type: none"> 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, or Use any of the CAA Options without first taking the WASL. 			
Electives	5	Up to 22 credits, as needed to total of 95 credits. Any GRCC credit, except BASIC or ESOL.	22
Total credits	19		95



We are

Awesome

- **Common Course Numbering (CCN)**
- **Course Descriptions**
- **Reference**

COMMON COURSE NUMBERING CROSSWALK

Note: This list includes common course numbering and other related course changes such as collisions and department/division prefix changes.



GRCC course numbers are changing. Make sure you don't take the same class twice.

Common Course Numbering (CCN) is a new program that makes commonly shared courses among Washington community and technical colleges have the same course number and title.

Recently, faculty from Washington state community and technical colleges have met to discuss the similarities in courses, and their course content. These courses, once identified, were then given the same course numbers and titles. For those students who transfer courses from one Washington state community college to another, this will make that translation for coursework much easier. These courses are identified by an “&” within

the department abbreviation. For example: PSYCH 100 now becomes PSYC& 100.

If you have taken GRCC courses with the previous numbers, your transferability will not be affected. The courses will transfer just as they would before.

If a course is not labeled as a common course, it does not mean that transferability is limited. The course will be considered as transferable using the same course content requirements as before. It is always important that you check the course descriptions at www.greenriver.edu/catalog/courses/default.aspx for all course transferability information.

GRCC renamed and renumbered 265 courses during the CCN project. Be careful that you do not take the same course twice.

Contact your advisor or visit our Web site for more information.

Old Course Number	Old Course Title	Old Credits	New Course Number	New Course Title	New Credits
ACCOUNTING			ACCOUNTING		
B A 110	Practical Financial Accounting 1	5	ACCT 110		5
B A 111	Practical Financial Accounting 2	5	ACCT 111		5
B A 112	QuickBooks for Accounting	5	ACCT 112		5
B A 113	Practical Accounting	5	ACCT 113		5
B A 118	Individual Taxation	5	ACCT 118		5
B A 121	Payroll Accounting	5	ACCT 121		5
B A 130.1	QuickBooks: Introduction and Customer Satisfaction	1	ACCT 130.1		1
B A 130.2	QuickBooks: Vendor Transactions and Banking	1	ACCT 130.2		1
B A 130.3	QuickBooks: Create and Invent a Company	1	ACCT 130.3		1
B A 130.4	QuickBooks: Payroll and Balance Sheet	1	ACCT 130.4		1
B A 130.5	QuickBooks: Estimates, Job Costing, Time	1	ACCT 130.5		1
B A 175	Instructor Aide	5	ACCT 175	Accounting Instructor Aide	5
B A 210	Financial Accounting 1	5	ACCT& 201	Principles of Accounting I	5
B A 220	Financial Accounting 2	5	ACCT& 202	Principles of Accounting II	5
B A 230	Managerial Accounting	5	ACCT& 203	Principles of Accounting III	5
ANTHROPOLOGY			ANTHROPOLOGY		
ANTHR 100	Introduction to Anthropology	5	ANTH& 100	Survey of Anthropology	5
ANTHR 194	Special Topics	5	ANTH 194	Special Topics – Anthropology 1	5
ANTHR 201	Biological Anthropology	5	ANTH& 205		5
ANTHR 202	Sociocultural Anthropology	5	ANTH& 206	Cultural Anthropology	5
ANTHR 204	Introduction to Linguistic Anthropology	5	ANTH& 207	Linguistic Anthropology	5
ANTHR 205	Introduction to Medical Anthropology	5	ANTH& 235	Cross-Cultural Medicine	5
ANTHR 206	Introduction to Anthropology-Religion	5	ANTH& 234	Religion and Culture	5
ANTHR 210	Indians of North America	5	ANTH& 210	Indians of North America	5

COMMON COURSE NUMBERING CROSSWALK

Note: This list includes common course numbering and other related course changes such as collisions and department/division prefix changes.

Old Course Number	Old Course Title	Old Credits	New Course Number	New Course Title	New Credits
ANTHR 215	NW Coast Indians: Nuu-Cha Nulth	5	ANTH 211	Nuu-Chah-Nulth Indians	5
ANTHR 220	Northwest Coast Indians	5	ANTH& 216		5
ANTHR 265	Forensic Anthropology	5	ANTH& 236		5
ANTHR 273	Field Archeology	10	ANTH 273		10
ANTHR 294	Special Topics (Varies)	5	ANTH 294	Special Topics – Anthropology 2	5
ANTHR 298	Independent Study-Anthropology	5	ANTH 298	Independent Study – Anthropology 1	5
ANTHR 299	Independent Study-Anthropology	5	ANTH 299	Independent Study – Anthropology 2	5
ANATOMY-PHYSIOLOGY			ANATOMY-PHYSIOLOGY		
AP 205	Human Anatomy and Physiology 1	5	BIOL& 241		5-6
AP 206	Human Anatomy and Physiology 2	5	BIOL& 242		5-6
ART			ART		
ART 100	Introduction to Art	5	ART& 100	Art Appreciation	5
ASTRONOMY			ASTRONOMY		
ASTRO 100	Introduction to General Astronomy	5	ASTR& 100	Survey of Astronomy	5
ASTRO 101	General Astronomy	5	ASTR& 101	Introduction to Astronomy	5
BIOLOGY			BIOLOGY		
BIOL 100	Introductory Biology	5	BIOL& 100	Survey of Biology	3-6
BIOL 201	General Biology	6	BIOL& 211	Majors Cellular	5-6
BIOL 202	Animal Biology	6	BIOL& 212	Majors Animal	5-6
BIOL 203	Plant Biology	6	BIOL& 213	Majors Plant	5-6
BIOL 210	Microbiology	5	BIOL& 260		5
BUSINESS			BUSINESS		
B A 101	Business, Government and Society	5	BUS& 101	Introduction to Business	5
B A 200	Introduction to Law	5	POLS& 200		5
B A 205	Business Law	5	BUS& 201		5
COMPUTER SCIENCE			COMPUTER SCIENCE		
C SCI 142	C++ Programming	5	CS& 131	Computer Science I C++	5
C SCI 143	C++ Data Structures	5	CS 132		5
C SCI 144	Java 1	5	CS& 141	Computer Science I Java	5
C SCI 145	Java 2	5	CS 145		5
CHEMISTRY			CHEMISTRY		
CHEM 101	Survey of General Chemistry	5	CHEM& 121	Introduction to Chemistry	5
CHEM 102	Survey Organic Chemistry and Biochemistry	5	CHEM& 131	Introduction to Organic/Biochemistry	5

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COMMON COURSE NUMBERING CROSSWALK

Note: This list includes common course numbering and other related course changes such as collisions and department/division prefix changes.

Old Course Number	Old Course Title	Old Credits	New Course Number	New Course Title	New Credits
CHEM 105	Introduction to General Chemistry	5	CHEM& 140	General Chemistry Prep w/Lab	5
CHEM 140	General Chemistry 1	6	CHEM& 161	General Chemistry w/Lab I	6
CHEM 150	General Chemistry 2	6	CHEM& 162	General Chemistry w/Lab II	6
CHEM 160	General Chemistry 3	6	CHEM& 163	General Chemistry w/Lab III	6
CHEM 235	Organic Chemistry	6	CHEM& 261	Organic Chemistry w/Lab I	6
CHEM 236	Organic Chemistry	6	CHEM& 262	Organic Chemistry w/Lab II	6
CHEM 237	Organic Chemistry	6	CHEM& 263	Organic Chemistry w/Lab III	6
CHINESE			CHINESE		
CHIN 101	Elementary Chinese 1	5	CHIN& 121	Chinese I	5
CHIN 102	Elementary Chinese 2	5	CHIN& 122	Chinese II	5
CHIN 103	Elementary Chinese 3	5	CHIN& 123	Chinese III	5
COMMUNICATION STUDIES			COMMUNICATION STUDIES		
COMM 100	Fund-Oral Communication	5	CMST 100		5
COMM 110	Interpersonal Communication	5	CMST& 210		5
COMM 177	Communication Work Experience	1-12	CMST 177	Communication Work Experience 1	1-12
COMM 178	Communication Work Experience	1-12	CMST 178	Communication Work Experience 2	1-12
COMM 179	Communication Work Experience	1-12	CMST 179	Communication Work Experience 3	1-12
COMM 194	Special Studies	5	CMST 194	Special Studies – Communication	5
COMM 212	Persuasion and Propaganda	5	CMST 212		5
COMM 215	Critical Analysis/Media	5	CMST 215		5
COMM 101	Basic Speech Communication	5	CMST& 220	Public Speaking	5
COMM 234	Small Group Leadership	5	CMST& 230	Small Group Communication	5
COMM 238	Intercultural Communication	5	CMST 238		5
COMM 245	Argumentation	5	CMST 245		5
COMM 299	Independent Study	5	CMST 299	Independent Study – Communication	5
CRIMINAL JUSTICE			CRIMINAL JUSTICE		
CRJ 100	Introduction to Criminal Justice	5	CJ& 101		5
CRJ 115	Fingerprint Science	5	CJ 115		5
CRJ 177	Cooperative Education	1-5	CJ 177	Criminal Justice Work Experience 1	5
CRJ 178	Cooperative Education	1-5	CJ 178	Criminal Justice Work Experience 2	5
CRJ 179	Cooperative Education	5	CJ 179	Criminal Justice Work Experience 3	5
CRJ 200	Individual Rights	5	CJ 200		5
CRJ 205	Criminal Evidence	5	CJ 205		5

COMMON COURSE NUMBERING CROSSWALK

Note: This list includes common course numbering and other related course changes such as collisions and department/division prefix changes.

Old Course Number	Old Course Title	Old Credits	New Course Number	New Course Title	New Credits
CRJ 220	Multicultural Diversity	5	CJ 220		5
CRJ 225	Criminal Law	5	CJ& 110		5
CRJ 230	Corrections	5	CJ& 105	Introduction to Corrections	5
CRJ 240	Community Oriented Policing	5	CJ 236		5
CRJ 255	Forensic Science	5	CJ& 240	Introduction to Forensic Science	5
CRJ 294	Special Topics In Criminal Justice	5	CJ 294		5
CRJ 299	Independent Study	5	CJ 299	Independent Study – Criminal Justice	5
DRAMA			DRAMA		
DRAMA 102	Drama Appreciation	5	DRMA& 101	Introduction to Theatre	5
DRAMA 111	Rehearsal and Performance	5	DRMA 111	Rehearsal and Performance 1	5
DRAMA 112	Rehearsal and Performance	5	DRMA 112	Rehearsal and Performance 2	5
DRAMA 113	Rehearsal and Performance	5	DRMA 113	Rehearsal and Performance 3	5
DRAMA 120	The Art of The Film	5	DRMA 120		5
DRAMA 121	Contemporary American Movies	5	DRMA 121		5
DRAMA 140	Shakespeare on Film	5	DRMA 140		5
DRAMA 141	Pop Culture In Movies and TV	5	DRMA 141		5
DRAMA 151	Acting-Living the Role	5	DRMA 151		5
DRAMA 152	Acting-Technical Aspects	5	DRMA 152		5
DRAMA 153	Acting Workshop	5	DRMA 153		5
DRAMA 298	Independent Study	5	DRMA 298	Independent Study – Drama	5
ECONOMICS			ECONOMICS		
ECON 200	Macroeconomics	5	ECON& 202	Macro Economics	5
ECON 201	Microeconomics	5	ECON& 201	Micro Economics	5
EDUCATION			EDUCATION		
EDEC 110	Child Development	5	EDUC& 115	Child Development	5
EDEC 193	The Exceptional Child	3	EDUC& 204	Exceptional Child	3
EDU 111	Middle Childhood and Adolescent	5	EDUC 111		5
EDU 170	Introduction to Education	5	EDUC& 205	Introduction to Education w/Field Experience	5
EDU 193	Introduction to Special Education	3	EDUC 193		3
EDU 194	Education Special Topics 1	5	EDUC 194		5
EDU 195	Education Special Topics 2	5	EDUC 195		5
EDU 196	Education Special Topics 3	5	EDUC 196		5
EDU 210	Assisting Practicum	6	EDUC 210		6
EDU 240	Multicultural/Anti Bias	5	EDUC 240		5
EDU 270	Teacher Portfolio Review	1	EDUC 270		1

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COMMON COURSE NUMBERING CROSSWALK

Note: This list includes common course numbering and other related course changes such as collisions and department/division prefix changes.

Old Course Number	Old Course Title	Old Credits	New Course Number	New Course Title	New Credits
EDU 294	Education Special Topics 4	5	EDUC 294		5
EDU 295	Education Special Topics 5	5	EDUC 295		5
EDU 296	Education Special Topics 6	5	EDUC 296		5
ENGLISH			ENGLISH		
ENGL 102	Practical College Writing	5	ENGL 109	Writing for Trades/Professional Technical Degrees	5
ENGL 110	College Writing	5	ENGL& 101	English Composition I	5
ENGL 111	Writing: Humanities	5	ENGL 126		5
ENGL 112	Writing: Social Sciences	5	ENGL 127		5
ENGL 113	Research Writing: Science/Engineering/Business	5	ENGL 128		5
ENGL 131	Introduction to Short Fiction	5	ENGL& 112	Introduction to Fiction	5
ENGL 132	Introduction to Reading Drama	5	ENGL& 114	Introduction to Drama	5
ENGL 133	Introduction to Poetry	5	ENGL& 113	Introduction to Poetry	5
ENGL 135	Introduction to Novels	5	ENGL 115	Introduction to Novels	5
ENGL 151	Creative Writing 1	5	ENGL& 236	Creative Writing I	5
ENGL 152	Creative Writing 2	5	ENGL& 237	Creative Writing II	5
ENGL 154	Lit/Art Journalism Production	3	ENGL 239	Espial Workshop	5
ENGL 221	American Literature to 1860	5	ENGL& 244	American Literature I: American Literature to 1860	5
ENGL 222	American Literature: Civil War/WWI	5	ENGL& 245	American Literature II: Civil War to WWI	5
ENGL 223	American Literature: WWI to Present	5	ENGL& 246	American Literature III: WWI to Present	5
ENGL 224	American Ethnic Literature	5	ENGL 247		5
ENGL 225	African-American Literature	5	ENGL 248		5
ENGL 240	Introduction to Shakespeare	5	ENGL& 220		5
ENGL 244	English Literature: 7-16th Century	5	ENGL& 226	British Literature I: 7th-16th Century	5
ENGL 245	English Literature: 17-18th Century	5	ENGL& 227	British Literature II: 17th-18th Century	5
ENGL 246	English Literature: 19-21st Century	5	ENGL& 228	British Literature III: 19th-21st Century	5
ENGL 265	Literature of the Ancient World	5	ENGL& 254	World Literature I: Ancient World	5
ENGL 266	World Literature: 7-18th Century	5	ENGL& 255	World Literature II: 7th to 18th Century	5
ENGL 267	World Literature: 19-21st Century	5	ENGL& 256	World Literature III: 19th to 21st Century	5
ENGL 268	Non-Western World Literature	5	ENGL 257		5
FRENCH			FRENCH		
FREN 101	Elementary French 1	5	FRCH& 121	French I	5
FREN 102	Elementary French 2	5	FRCH& 122	French II	5
FREN 103	Elementary French 3	5	FRCH& 123	French III	5
FREN 201	Intermediate French	5	FRCH& 221	French IV	5

COMMON COURSE NUMBERING CROSSWALK

Note: This list includes common course numbering and other related course changes such as collisions and department/division prefix changes.

Old Course Number	Old Course Title	Old Credits	New Course Number	New Course Title	New Credits
ENGINEERING			ENGINEERING		
G E 100	Careers in Engineering	2	ENGR 100		2
G E 104	Innovations in Design	5	ENGR& 104	Introduction to Design	5
G E 106	Introduction to Engineering Problems	3	ENGR 106		3
G E 112	Statics	5	ENGR& 214		5
G E 120	Engineering Computational Tools	2	ENGR 120		2
G E 123	Engineering Graphics and 3D Model	5	ENGR& 114	Engineering Graphics	5
G E 140	Materials Science	5	ENGR 140		5
G E 177	Engineering Work Experience	1-12	ENGR 177	Engineering Work Experience 1	1-12
G E 178	Engineering Work Experience	1-12	ENGR 178	Engineering Work Experience 2	1-12
G E 179	Engineering Work Experience	1-12	ENGR 179	Engineering Work Experience 3	1-12
G E 198	Independent Study in Computer Programming	5	ENGR 198		5
G E 199	Independent Study in Design Project	5	ENGR 199		5
G E 235	Fund Electrical Circuits	5	ENGR& 204	Electrical Circuits	5
G E 240	Mechanics of Materials	5	ENGR& 225		5
G E 280	Thermodynamics	5	ENGR& 224		5
G E 281	Dynamics	5	ENGR& 215		5
GEOLOGY			GEOLOGY		
GEOL 101	Physical Geology	5	GEOL& 101	Introduction to Physical Geology	5
GEOL 200	Geology of National Parks	5	GEOL 200	Geological Investigation of National Parks	5
GEOL 208	Geology of the Northwest	5	GEOL& 208	Geology of Pacific NW	5
GERMAN			GERMAN		
GERM 101	Elementary German	5	GERM& 121	German I	5
GERM 102	Elementary German 2	5	GERM& 122	German II	5
GERM 103	Elementary German 3	5	GERM& 123	German III	5
HISTORY			HISTORY		
HIST 200	The Pacific Northwest	5	HIST& 214	Pacific NW History	5
HIST 221	United States to 1877	5	HIST& 136	US History 1	5
HIST 222	United States 1877 to Present	5	HIST& 137	US History 2	5
HIST 225	Women In US History	5	HIST& 215		5
JAPANESE			JAPANESE		
JAPAN 101	Elementary Japanese 1	5	JAPN& 121	Japanese I	5
JAPAN 102	Elementary Japanese 2	5	JAPN& 122	Japanese II	5
JAPAN 103	Elementary Japanese 3	5	JAPN& 123	Japanese III	5

COMMON COURSE NUMBERING CROSSWALK

Note: This list includes common course numbering and other related course changes such as collisions and department/division prefix changes.

Old Course Number	Old Course Title	Old Credits	New Course Number	New Course Title	New Credits
JOURNALISM			JOURNALISM		
JOURN 201	Introduction to Mass Media	5	CMST& 102		5
MATHEMATICS			MATHEMATICS		
MATH 102	Pre-Calculus 1	5	MATH& 141	Precalculus 1	5
MATH 104	Pre-Calculus 2	5	MATH& 142	Precalculus 2	5
MATH 107	Contemporary Mathematics	5	MATH & 107	Math in Society	5
MATH 124	Calculus and Analytic Geometry 1	5	MATH& 151	Calculus I	5
MATH 125	Calculus and Analytic Geometry 2	5	MATH& 152	Calculus II	5
MATH 126	Calculus and Analytic Geometry 3	5	MATH& 153	Calculus III	5
MATH 156	Finite Math-Business and Social Science	5	MATH 147	Finite Math-Business and Social Science	5
MATH 157	Calculus for Business and Social Science	5	MATH& 148	Business Calculus	5
MATH 224	Intermediate Analysis	5	MATH& 254	Calculus IV	5
MUSIC			MUSIC		
MUSIC 100	Music Survey	5	MUSC& 105	Music Appreciation	5
MUSIC 101	Fundamentals of Music	5	MUSC 101		5
MUSIC 103	American Popular Music	5	MUSC 103		5
MUSIC 104	Music in World Culture	5	MUSC 104		5
MUSIC 105	Introduction to Computer Music	5	MUSC 108		5
MUSIC 106	Computer Music Notation	5	MUSC 109		5
MUSIC 107	History of Jazz	5	MUSC 107		5
MUSIC 111	Music Theory 1	3	MUSC& 131		3
MUSIC 112	Music Theory 2	3	MUSC& 132		3
MUSIC 113	Music Theory 3	3	MUSC& 133		3
MUSIC 114	Ear Training 1	2	MUSC& 121		2
MUSIC 115	Ear Training 2	2	MUSC& 122		2
MUSIC 116	Ear Training 3	2	MUSC& 123		2
MUSIC 118	Concert Choir 1	3	MUSC 118		3
MUSIC 119	Concert Choir 2	3	MUSC 119		3
MUSIC 120	Concert Choir 3	3	MUSC 120		3
MUSIC 124	Musical Rehearsal and Performance	5	MUSC 124		5
MUSIC 127	Rendezvous Chamber Singers 1	5	MUSC 127		5
MUSIC 128	Rendezvous Chamber Singers 2	5	MUSC 128		5
MUSIC 129	Rendezvous Chamber Singers 3	5	MUSC 129		5
MUSIC 130.1	Private Instruction 1	1	MUSC 130.1		1

COMMON COURSE NUMBERING CROSSWALK

Note: This list includes common course numbering and other related course changes such as collisions and department/division prefix changes.

Old Course Number	Old Course Title	Old Credits	New Course Number	New Course Title	New Credits
MUSIC 130.2	Private Instruction 2	1	MUSC 130.2		1
MUSIC 130.3	Private Instruction 3	1	MUSC 130.3		1
MUSIC 132	Class Piano	2	MUSC 140	Class Piano 1	2
MUSIC 133	Class Piano	2	MUSC 141	Class Piano 2	2
MUSIC 134	Class Piano	2	MUSC 142	Class Piano 3	2
MUSIC 218	Concert Choir 4	3	MUSC 218		3
MUSIC 219	Concert Choir 5	3	MUSC 219		3
MUSIC 220	Concert Choir 6	3	MUSC 220		3
MUSIC 227	Rendezvous Chambers Singers 4	5	MUSC 227		5
MUSIC 228	Rendezvous Chambers Singers 5	5	MUSC 228		5
MUSIC 229	Rendezvous Chambers Singers 6	5	MUSC 229		5
MUSIC 230.1	Private Instruction 4	1	MUSC 230.1		1
MUSIC 230.2	Private Instruction 5	1	MUSC 230.2		1
MUSIC 230.3	Private Instruction 6	1	MUSC 230.3		1
MUSIC 251	Music Theory 4	3	MUSC& 231		3
MUSIC 252	Music Theory 5	3	MUSC& 232		3
MUSIC 254	Ear Training 4	2	MUSC& 221		2
MUSIC 255	Ear Training 5	2	MUSC& 222		2
MUSIC 298	Independent Study	5	MUSC 298	Independent Study – Music 1	5
MUSIC 299	Independent Study	5	MUSC 299	Independent Study – Music 2	5
NURSE			NURSE		
NURSE 100	Nutrition	5	NUTR& 101		5
OCEANOGRAPHY			OCEANOGRAPHY		
OCEAN 101	Survey of Oceanography	5	OCEA& 101	Introduction to Oceanography	5
POLITICAL SCIENCE			POLITICAL SCIENCE		
P SCI 090	Basic Political Science	3	POLS 090		3
P SCI 100	Introduction to Politics	5	POLS& 101	Introduction to Political Science	5
P SCI 194	Special Topics	5	POLS 194	Special Topics in Political Science	5
P SCI 201	Comparative Politics	5	POLS& 204	Comparative Government	5
P SCI 202	U.S. Government and Politics	5	POLS& 202	American Government	5
P SCI 203	International Relations	5	POLS& 203		5
P SCI 204	State/Local Government Politics	5	POLS 209		5
P SCI 207	American Political Participants	5	POLS 207		5

110 Common Course Numbering

COMMON COURSE NUMBERING CROSSWALK

Note: This list includes common course numbering and other related course changes such as collisions and department/division prefix changes.

Old Course Number	Old Course Title	Old Credits	New Course Number	New Course Title	New Credits
P SCI 298	Independent Study	5	POLS 298	Independent Study – Political Science	5
PHILOSOPHY		PHILOSOPHY			
PHIL 100	Introduction to Philosophy	5	PHIL& 101		5
PHIL 120	Introduction to Logic	5	PHIL& 106		5
PHYSICS		PHYSICS			
PHYS 101	Concepts of the Physical World	5	PHYS 105		5
PHYS 221	Modern Physics	3	PHYS 225		3
PSYCHOLOGY		PSYCHOLOGY			
PSYCH 100	General Psychology	5	PSYC& 100		5
PSYCH 200	Human Sexuality	5	PSYC& 180		5
PSYCH 201	Personality	5	PSYC 201		5
PSYCH 209	Fundamentals of Psychological Research	5	PSYC 209		5
PSYCH 210	Developmental Psychology	5	PSYC& 200	Lifespan Psychology	5
PSYCH 220	Fundamentals of Physical Psychology	5	PSYC 225		5
PSYCH 250	Abnormal Psychology	5	PSYC& 220		5
PSYCH 298	Independent Study	5	PSYC 298	Independent Study – Psychology 1	5
PSYCH 299	Independent Study	5	PSYC 299	Independent Study – Psychology 2	5
SOCIOLOGY		SOCIOLOGY			
SOC 110	Survey of Sociology	5	SOC& 101	Introduction to Sociology	5
SOC 201	Social Problems	5	SOC& 201		5
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112 Course Descriptions

This section includes a brief description of each credit class offered on a regular basis at Green River Community 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. Prerequisites and academic transfer distributions are also designated where appropriate. Common course numbers are identified by an "&" within the department abbreviation.

Courses numbered 100-299 are designed for Green River Community 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.

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.

Auto Body Technology (ABODY)

ABODY 051 Repair and Painting (4)

Provides an introduction to auto body repair and painting. Introduces students to current industry safety practices, hazardous material practices, and various skills including metal straightening to spot and complete repainting. Course serves as additional practice for experienced auto body students. *PREREQUISITE: Instructor's permission.*

ABODY 052 Summer Repair and Painting (1-13)

Provides an introduction to auto body repair and painting. Introduces students to current industry safety practices, hazardous material practices, and various skills including metal straightening to spot and complete repainting. Course serves as additional practice for experienced auto body students. *PREREQUISITE: Instructor's permission.*

ABODY 100 Conduct/Safety/Equipment (1)

A self-paced course presenting fundamental principles and terminology of auto body conduct/safety and equipment. Hazardous materials, workplace ethics, leadership, human relation fundamentals, cultural diversity, attendance, punctuality and good housekeeping as applied to the industry are integral to instruction in all applicable situations. *PREREQUISITE: Instructor's permission, and concurrent enrollment in ABODY 180.*

ABODY 104 Non-Structural Repair (1-14)

A hands-on course supplemented with independent study and group lecture presenting fundamental principles and terminology of auto body non-structural analysis and damage repair. Includes preparation, metal finishing, body

filling, movable glass and hardware, outer panel repairs and replacement, adjustments, and welding. Hazardous materials, workplace ethics, leadership, human relation fundamentals, cultural diversity, attendance, punctuality, and good housekeeping are integral to instruction in all applicable situations. *PREREQUISITE: Instructor's permission and concurrent enrollment in any one of ABODY 180, 181, 182, 183, and 184.*

ABODY 105 Structural Damage Repair (1-14)

A hands-on course supplemented with independent study and group lecture presenting fundamental principles and terminology of auto body structural analysis and damage repair. Includes unibody inspection, measurement and repair, frame inspection and repair, structural welding, and fixed glass damage analysis and repair. See instructor for current list of course competencies. *PREREQUISITE: Instructor's permission and concurrent enrollment in any one of ABODY 180, 181, 182, 183, and 184.*

ABODY 106 Mechanical and Electrical Repair (1-15)

A hands-on course supplemented with independent study and group lecture presenting fundamental principles and terminology of auto body mechanical and electrical components, suspension, steering, electrical, brakes, heating, and air conditioning, cooling systems, drive train, fuel, intake, exhaust and restraint systems. See instructor for current list of course competencies. *PREREQUISITE: Instructor's permission and concurrent enrollment in any one of ABODY 180, 181, 182, 183, and 184.*

ABODY 107 Plastics and Adhesives (1-3)

A hands-on course supplemented with independent study and group lecture presenting fundamental principles and terminology of auto body plastics and adhesives including identification of plastics to be repaired, plastics repair procedures, rigid and flexible plastics, fiberglass, exterior and interior plastics repair and refinishing. See instructor for current list of course competencies. *PREREQUISITE: Instructor's permission and concurrent enrollment in any one of ABODY 180, 181, 182, 183, and 184.*

ABODY 108 Painting and Refinishing (1-20)

A hands-on course supplemented with independent study and group lecture presenting fundamental principles and terminology of auto body painting and refinishing including surface preparation, and spray gun operation, paint mixing, matching and applying, solving paint application problems, finish defects causes and cures, safety precautions and miscellaneous analysis and repair. See instructor for current list of course competencies. *PREREQUISITE: Instructor's permission and concurrent enrollment in any one of ABODY 180, 181, 182, 183, and 184.*

ABODY 109 Special Shop Practice (1-11)

A capstone hands-on course that allows students to refine their skills in the competencies learned in Non-structural Repair, Structural Damage Repair, Mechanical and Electrical Repair, Plastics and Adhesives, and Painting and Refinishing. *PREREQUISITE: Instructor's permission.*

ABODY 110 Estimating for Collision Repair (3)

Focuses on the process of evaluating collision damaged vehicles and generating repair estimates. Introduces students to modern vehicle designs, including frame and unibody construction. Covers damage diagnosis and the effects of collision on vehicle systems. Emphasizes the generation of organized, competitive, and efficient damage reports. Course introduces students to computerized estimating.

ABODY 177-179 Auto Body Work Experience 1-3 (1-12)

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.*

ABODY 180-184 Industry Leadership 1-5 (1)

Enables auto body students to engage in personal development and leadership activities outside of their regular auto body course work. In addition to class meetings, student participation in the GRCC chapter of Skills USA/VICA, other leadership clubs, and activities, provides students with opportunities for professional and personal growth.

ABODY 194 Special Topics in Auto Body (1-13)

Students study and train to meet established local needs in auto body repair industry. Supplemental to classes currently offered. *PREREQUISITE: Instructor's permission.*

Accounting (ACCT)

ACCT 110 Practical Financial Accounting 1 (5)

Elementary course covers the complete accounting cycle for service and merchandising businesses, as well as the basic functions of analyzing, classifying, recording, and summarizing accounting data. Topics include journals, ledgers, worksheets, adjusting entries and financial statement preparation. Includes a computerized general ledger application. *PREREQUISITE: Eligible for READ 104 or instructor's permission. Formerly B A 110.*

ACCT 111 Practical Financial Accounting 2 (5)

A continuation of ACCT 110 with an emphasis on generally-accepted accounting principles. Topics include special journals, receivables, payables, bad debts, interest, recording and discounting of notes, inventories, short-term investments, cash handling procedures, internal

accounting controls, and intangible assets. Includes computerized accounting applications. *PREREQUISITE: ACCT 110 with a grade 2.0 or higher, or instructor's permission. Formerly B A 111.*

ACCT 112 QuickBooks for Accounting (5)
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 BUS E 100 with a grade of 2.0 or higher, or instructor's permission. Formerly B A 112.*

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

ACCT 118 Individual Taxation (5)
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. Formerly B A 118.*

ACCT 121 Payroll Accounting (5)
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. Formerly B A 121.*

ACCT 130.1 QuickBooks: Introduction and Customer Transaction (1)
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, create statements, and customer-related reports. *RECOMMEND: Keyboarding skills. Formerly B A 130.1.*

ACCT 130.2 QuickBooks: Vendor Transactions and Banking (1)
Introduces vendor transactions. Includes working with bills, entering and making changes to vendor information, paying bills, writing checks, vendor-related and profit/loss reports. Covers the banking area of the home page, creating a bank account, editing accounts in the Chart of Accounts, and QuickBooks banking features. *Formerly B A 130.2.*

ACCT 130.3 QuickBooks: Create a Company and Inventory (1)
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 of selling and receiving items on the inventory, and inventory management reports. *Formerly B A 130.3.*

ACCT 130.4 QuickBooks: Payroll and Balance Sheet (1)
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. *Formerly B A 130.4.*

ACCT 130.5 QuickBooks: Estimates, Job Costing, Time (1)
Includes setting up, managing, applying classes to transactions, and running a profit and loss by class report. Includes 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. *Formerly B A 130.5.*

ACCT 175 Accounting Instructor Aide (1-5)
Students assist the instructor. Aides work with other students in accounting classes, answering their questions, and doing tutorial-type work. *PREREQUISITE: Instructor's permission. Formerly B A 175.*

ACCT& 201 Principles of Accounting I (5)
The first course in the accounting transfer sequence. Concentrates on basic principles, concepts, theories and procedures of recording, analyzing, and interpreting financial data. Students learn the 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. *PREREQUISITE: Eligible for ENGL& 101 and MATH& 141; or instructor's permission. Formerly B A 210.*

ACCT& 202 Principles of Accounting II (5)
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 applies generally accepted accounting principles to promote critical reasoning. *RECOMMEND: BUS& 101 and computer spreadsheet skills. PREREQUISITE: ACCT& 201 with a grade of 2.0 or higher or instructor's permission. Formerly B A 220.*

ACCT& 203 Principles of Accounting III (5)
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. *RECOMMEND: ECON& 202 and MATH 147 prior to enrolling in this course, and computer spreadsheet skills. PREREQUISITE: ACCT& 202 with a grade 2.0 or higher, or instructor's permission. Formerly B A 230.*

Computation (ACOMP)

ACOMP 100N Computation for Practical Nursing (3)
Basic mathematics course for nursing students. Covers unit conversions in and between the avoirdupois (household), apothecary and metric systems and dosage calculations for oral, parental (injection), body weight and IV medications. *PREREQUISITE: MATH 062 with a grade of 2.5 or higher or appropriate placement test score or high school transcript evaluation or instructor's permission.*

ACOMP 100T Computation for the Trades (5)
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 GRCC or at any four-year institution. *PREREQUISITE: BASIC 053 or appropriate COMPASS score.*

American Minority and Ethnic Studies (AMES)

AMES 100 Introduction to Minority and Ethnic Studies (5)

Social and historical overview of the interrelationships between Native American, African American, Latino and Asian American in the United States. Focuses on relations with each other and with the dominant society. *RECOMMEND: Eligible for ENGL& 101. Satisfies a social science requirement for AA degree.*

AMES 194 Special Topics - AMES (1-5)

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.

AMES 211 Nuu-Chah-Nulth Indians (5)

Examines the Nuu-Chah-Nulth peoples of the Northwest Coast, as they are known from historical, ethnographic and informant sources. A field course in 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. Formerly AMES 215.*

AMES 299 Independent Study - AMES (1-5)

Allows and encourages a student to study independently in an area of their special interests in American and ethnic minority studies. Student and instructor decide course content, type and scope of work. *PREREQUISITE: AMES 100 and instructor's permission.*

Anthropology (ANTH)

ANTH& 100 Survey of Anthropology (5)

Provides a basic understanding of the four sub-fields of anthropology: Physical anthropology, archaeology, linguistics, and socio-cultural anthropology. Units of study include evolution, culture, human biological and cultural origins, primate behavior, pre-history, language acquisition, and cultural development. *Satisfies a social science requirement for AA degree. Formerly ANTHR 100.*

ANTH 194 Special Topics - Anthropology 1 (1-5)

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. *Formerly ANTHR 194.*

ANTH& 205 Biological Anthropology (5)

Study of human evolution including the 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 lab/natural science or social science requirement for AA degree. Formerly ANTHR 201.*

ANTH& 206 Cultural Anthropology (5)

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 requirement for AA degree. Formerly ANTHR 202.*

ANTH& 207 Linguistic Anthropology (5)

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. Formerly ANTHR 204.*

ANTH& 210 Indians of North America (5)

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 requirement for AA degree. Formerly ANTHR 210.*

ANTH 211 Nuu-Chah-Nulth Indians (5)

Examines the Nuu-Chah-Nulth peoples of the Northwest Coast, as they are known from historical ethnographic and informant sources. A field course 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. Formerly ANTHR 215.*

ANTH& 216 Northwest Coast Indians (5)

Covers the historical, ethnographic and informant sources of the Native American cultures of the Northwest Coast (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. Formerly ANTHR 220.*

ANTH& 234 Religion and Culture (5)

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. Formerly ANTHR 206.*

ANTH& 235 Cross-Cultural Medicine (5)

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. Formerly ANTHR 205.*

ANTH& 236 Forensic Anthropology (5)

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. Formerly ANTHR 265.*

ANTH 273 Field Archeology (1-10)

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. Formerly ANTHR 273.*

ANTH 294 Special Topics - Anthropology 2 (1-5)

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. Formerly ANTHR 294.*

ANTH 298 Independent Study - Anthropology 1 (1-5)

Allows student to pursue a special interest in anthropology under the direction of an instructor. *PREREQUISITE: Instructor's permission. Formerly ANTHR 298.*

ANTH 299 Independent Study - Anthropology 2 (1-5)

Allows student to pursue a special interest in anthropology under the direction of an instructor. *PREREQUISITE: Instructor's permission. Formerly ANTHR 299.*

Anatomy and Physiology (AP)

AP 100 Survey of Human Anatomy and Physiology (5)

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. Introduction to common human disease processes. Prepares non-science majors and allied-health profession students to take advanced anatomy and physiology courses. *Satisfies a natural science requirement for AA degree.*

AP 102 Bringing Anatomy and Physiology to Life (5)

Intended for students interested in taking human anatomy and physiology without going into the depth of the other GRCC anatomy/physiology course. Intended for non-science majors and for students not pursuing an allied health career. Develops an understanding of the structure and function of some of the key systems in the human body. Non-lab science course. *PREREQUISITE: Eligible for ENGL 100 or MATH 072. Satisfies a natural science requirement for AA degree.*

AP 103 Essentials of Human Anatomy - Physiology 1 (5)

Introductory course in human anatomy and physiology. First of a two-quarter sequence including the study of structure and function of cells, tissues, and the integumentary, skeletal, muscular, and nervous systems. Introduces common human disease processes. Laboratory component includes anatomical studies using microscopy and dissection and the study of physiological concepts via experimentation. AP 100 strongly recommended. *Satisfies a lab or natural science requirement for AA degree.*

AP 104 Essentials of Human Anatomy - Physiology 2 (5)

Introductory course in human anatomy and physiology. Second of a two-quarter sequence including the study of the endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary, and reproductive systems. Introduces common human disease processes. Laboratory component includes anatomical studies using microscopy and dissection and the study of physiological concepts via experimentation. *PREREQUISITE: AP 103. Satisfies a lab or natural science requirement for AA degree.*

AP 205 See BIOL& 241

AP 206 See BIOL& 242

AP 210 Cadaver Anatomy (1)

Comprehensive review of human cadaver anatomy for health professionals and students of the health professions. Covers major muscles, skin, bones and joints, internal organs, blood vessels, the brain, spinal cord

and major nerves. Uses dissected cadavers to study anatomical variations, pathologies, and anatomical change due to the aging process. *PREREQUISITE: Concurrent enrollment in AP 104 or BIOL& 242 or instructor's permission. Satisfies a natural science requirement for AA degree.*

Art (ART)

ART& 100 Art Appreciation (5)

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. Formerly ART 100.*

ART 105 Beginning Drawing (5)

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 Intermediate Drawing (5)

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 Advanced Drawing (5)

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 Beginning Design (5)

Introduces the visual elements of design and the fundamental principles of visual organization. Uses computers and traditional materials. Through visual problem solving, students strengthen their 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 Intermediate Design and Color (5)

Continues the study of two-dimensional design through the exploration of color. Teaches color relationships, theories, application in various media, and the expressive impact of color. Uses computers as the primary media in visual problem solving. *PREREQUISITE: ART 109 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree.*

ART 111 Painting 1 (5)

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 Painting 2 (5)

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 Painting 3 (5)

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 Pottery 1 (3-5)

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 Pottery 2 (3-5)

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 3-Dimensional Design (5)

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. Formerly ART 209.*

ART 120 Introduction to Graphic Design (5)

Introduces the principles of visual communication for print (publication) and Web (the Internet). Students use the computer to explore graphic design concepts through the study of color, form, typography, and composition. Integrates language and communicates ideas through text and imagery. *PREREQUISITE: ART 109 or concurrent enrollment. Satisfies a humanities/fine arts/English requirement for AA degree.*

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ART 122 The Visual Concepts of Web Design (5)

Introduces the visual fundamentals needed to create a successful Web site. Focuses on design concepts such as balance, color, movement and composition. Emphasizes creating Web sites that are aesthetic and effective. Uses an industry standard web design program such as Adobe Dreamweaver, with strong emphasis on typography, as well as overview of current and past visual trends in Web design. *PREREQUISITE: ART 109.*

ART 130 Watercolor Painting (3)

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 Portrait Drawing (3)

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. *PREREQUISITE: ART 105. Satisfies a humanities/fine arts/English requirement for AA degree.*

ART 135 Introduction to Screen Printing (3)

Introduces the traditional and contemporary concepts and techniques of screen printing. *Satisfies a humanities/fine arts/English requirement for AA degree.*

ART 150 Literary/Art Journal Design (3)

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 in charge of all elements in the production of a journal of student fiction, poetry, artwork and photography.

ART 177-179 Art Work Experience 1-3 (1-5)

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 The Artist's Portfolio (3)

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. *PREREQUISITE: ART 105 and 109; or instructor's permission.*

ART 194 Special Topics - Art (1-5)

Study of special subject matter that is not part of the regular art curriculum. Course content varies each time it is offered.

ART 199 Independent Study - Design (1-5)

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 History of Art 1 (5)

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 History of Art 2 (5)

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 History of Art 3 (5)

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 Advanced 3-Dimensional Design (5)

Further development of 3-D 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 a humanities/fine arts/English requirement for AA degree. Formerly ART 210.*

ART 251 Ceramics 1 (5)

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 Ceramics 2 (5)

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 Ceramics 3 (5)

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 Advanced Painting 1 (5)

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 Advanced Painting 2 (5)

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.*

ART 257 Advanced Painting 3 (5)

Explores traditional and contemporary approaches to 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 Independent Study - Ceramics 1-3 (1-5)

Emphasizes the development of an individual approach to art-making. Students submit proposals with project descriptions. Assesses students development and progress through faculty visits. *PREREQUISITE: Instructor's permission.*

ART 294 Independent Study - Painting 1 (1-5)

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 Independent Study - Painting 2 (1-5)

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 Independent Study - Painting 3 (1-5)

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 Independent Study - Advanced Drawing 1 (1-5)

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 Independent Study - Advanced Drawing 2 (1-5)

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 Independent Study - Advanced Drawing 3 (1-5)

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 Survey of Astronomy (5)

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. *Satisfies a natural science requirement for AA degree. Formerly ASTRO 100.*

ASTR& 101 Introduction to Astronomy (5)

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. Formerly ASTRO 101.*

Automotive Technology (ATECH)

ATECH 108.1 State Emission Control Specialist Phase I (4)

Presents fundamental principles and terminology of automotive emission control systems. Emphasizes developing a positive attitude toward work ethic, cultural and gender diversity, personal safety and a safe workplace, and disposal of hazardous materials. Students passing with an 80 percent score receive a certificate from the Department of Ecology designating them state emissions specialists. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

ATECH 108.3 Emissions Recertification (2)

Presents fundamental principles and terminology of automotive emission control systems. Emphasizes developing a positive attitude toward work ethic, cultural and gender diversity, personal safety and a safe workplace, and disposal of hazardous materials. Students passing with an 80 percent score receive a certificate from the Department of Ecology designating them state emissions specialists. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

ATECH 110 Shop Procedures (2)

Presents fundamental principles and terminology of automotive emission control systems. Emphasizes developing a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and disposal of hazardous materials. Students passing with an 80 percent score receive a certificate from the Department of Ecology designating them state emissions specialists. *PREREQUISITE: Instructor's permission and reading placement score of 81 or above.*

ATECH 111 Electrical and Electronics Systems (1-14)

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 developing a positive attitude toward work ethic, cultural and gender diversity, personal and workplace safety, and handling and disposal of hazardous materials. *PREREQUISITE: ATECH 110 and instructor's permission. Reading placement score of 81 or above.*

ATECH 112 Engine Performance (1-14)

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 developing 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. Reading placement score of 81 or above.*

ATECH 113 Engine Repair (1-3)

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 developing 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. Reading placement score of 81 or above.*

ATECH 114 Automatic Transmission and Trans-Axle (1-8)

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. Reading placement score of 81 or above.*

ATECH 115 Manual Drive Trains and Axles (1-6)

Covers theory, diagnosis, adjustment and repair of manual drive train components: i.e., clutch transmission, driveline 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. Reading placement score of 81 or above.*

ATECH 116 Suspension and Steering (1-6)

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. Reading placement score of 81 or above.*

ATECH 117 Brakes (1-7)

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. Reading placement score of 81 or above.*

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ATECH 118 Heating and Air Conditioning (1-6)

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. Reading placement score of 81 or above.*

ATECH 119 Special Shop Practice (1-12)

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. Reading placement score of 81 or above.*

ATECH 150-154 Automotive Leadership Skills 1-5 (1)

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 Auto Work Experience 1 (1-13)

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 Special Topics - Automotive (1-4)

Provides training to meet established local needs in automotive repair industry, supplemental to classes currently offered. *PREREQUISITE: Instructor's permission.*

Aviation (AVIA)

AVIA 101 Aviation Fundamentals (5)

Covers basic aviation principles, procedures and knowledge that professionals in the Aviation industry use routinely to operate aircraft, provide air traffic control services and manage flight operations. Topics include use of aviation publications and aeronautical charts, flight planning including aeronautical calculations, airspace and navigation planning, weight and balance planning, aircraft performance planning, and aircraft systems operations.

AVIA 110 Airline Operation (5)

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 Private Pilot Ground School (5)

Includes aerodynamics, navigation, weather, communications, regulations, flight physiology, weight balance, and other subjects preparatory to the FAA Private Pilot written exam.

AVIA 112 Aircraft System and Flight Deck Technology (2)

Covers general aviation and commercial aircraft systems, navigation systems and flight deck technologies currently in use in general aviation and commercial aircraft.

AVIA 121 Basic Weather Theory (2)

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 Aviation Weather (5)

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 Basic Weather Reports (1)

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 Basic Weather Observation (2)

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 160 Aviation Communication (2-5)

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, people who have completed ESOL. In both USA and ICAO (International) format.

AVIA 177-179 Aviation Work Experience 1-3 (1-13)

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 201 Air Traffic Control 1 (5)

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

AVIA 202 Air Traffic Control 2 (5)

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 201 with a grade of 3.0 or higher; or instructor's permission.*

AVIA 203 Air Traffic Controllers 3 - Enroute ATC (5)

Expands on the foundation of basic control procedures students learned in AVIA 201, and focuses on students aspiring to become air traffic controllers. *PREREQUISITE: AVIA 202 with a grade of 3.0 or higher; or instructor's permission.*

AVIA 206 Helicopter Ground School (3)

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 208 Airline Dispatch (5)

Teaches practical dispatching for airline and corporate operations, as well as preflight, inflight and postflight duties. Covers federal aviation regulations, meteorology, navigation, large aircraft weight/balance, performance, systems, communications. Also covers air traffic control procedure, and pilot departure and arrival procedures. *PREREQUISITE: AVIA 123 and 216; or instructor's permission.*

AVIA 209 International Flight Planning and ETOPS (5)

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 208 or concurrent enrollment; or instructor's permission.

AVIA 211 Aerodynamics for Pilots (3)

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. *PREREQUISITE: AVIA 111 or instructor's permission.*

AVIA 212 Human Factors for Aviators (2)

Human reactions to different situations, can adversely affect the safety of flight. Flight environments influence human physiology such as the eyes and ears, the brain and the body and these effects on human physiology can cloud judgment of flight crews. Cockpit and dispatch resource management is also crucial in the development of good communication skills between flight personnel and the ground crew. *PREREQUISITE: AVIA 111, 211, or concurrent enrollment; or instructor's permission.*

AVIA 213 Aviation History and Careers (5)

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 214 Airport Management and Operations (5)

Examines the administration of public airports and their relationship with airlines, fixed-base operators, and the FAA. Teaches federal airport standards for security, fuel handling and storage, noise abatement, bird control, clear zones, lighting, and federal and state financial aid programs to airports for improvements and upgrades.

AVIA 216 Instrument Pilot Ground School (5)

Provides students with information to pass the FAA instrument pilot written examination. Covers 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 220 Flight Instructor Ground School (5)

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.*

Business Administration (B A)

B A 145 Business Computation (5)

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.

B A 146 Intermediate Business Math (3)

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.*

B A 177-179 Business Administration Work Experience 1-3 (1-12)

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.*

B A 200 See POLS& 200

B A 205 See BUS& 201

Basic Education (BASIC)

BASIC 020 Academic Orientation and Planning (1-2)

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 032-034 Adult Basic Education - Levels 2-4 (1-15)

Provides instruction in basic reading, writing, critical thinking, and math to help students acquire fundamental academic, vocational and adult life skills. *PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no credit course.*

BASIC 053 Adult Basic Math (1-5)

Helps students achieve proficiency in basic math skills in order to function better in their daily lives, perform job-related math tasks, prepare for college-level math classes, or prepare for the math portion of the GED exam. *PREREQUISITE: Appropriate placement score on CASAS math assessment and instructor's permission. This is a pass/no credit course.*

BASIC 054 Problem Solving for the Math GED Test I (2-5)

Prepares students for the GED math test by teaching them to understand, analyze, evaluate, and solve the type of math problems presented

on the GED 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 "P" in BASIC 053. This is a pass/no credit course.*

BASIC 055 Adult Basic Reading 1 (1-5)

Students learn phonetic skills and basic sight words that enable them to decode the sounds of English and increase vocabulary to improve comprehension of increasingly challenging materials. *PREREQUISITE: Appropriate placement score on ABE CASAS reading assessment and instructor's permission. This is a pass/no credit course.*

BASIC 056 Adult Basic Reading 2 (1-5)

Students learn reading strategies and techniques that improve their understanding of reading materials for work, study, or pleasure. Students also learn to develop vocabulary, use the dictionary, and improve reading comprehension. *PREREQUISITE: Appropriate placement score on ABE CASAS reading assessment and instructor's permission. This is a pass/no credit course.*

BASIC 058 Problem Solving for the Math GED Test (2-5)

Prepares students for the GED math test by teaching them to understand, analyze, evaluate, and solve the type of math problems presented on the GED 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 Adult Basic Writing (1-5)

Helps students achieve proficiency in basic writing skills to help them communicate more effectively in writing and perform job-related writing tasks, and prepare for college-level writing classes. *PREREQUISITE: Instructor's permission and appropriate COMPASS placement score. This is a pass/no credit course.*

BASIC 060 Adult Basic and GED Writing (1-5)

Helps students improve proficiency in basic writing skills to prepare for college-level writing classes or for the writing skills test on the GED exam. Students write connected paragraphs with correct mechanics, usage and sentence structure on topics applicable to their roles as learners, workers, and community and family members. *RECOMMEND: Non-native speakers of English should complete ESOL classes or take BASIC 032, 033, 034, 055, or 059 prior to registering for BASIC 060. PREREQUISITE: Instructor's permission and appropriate COMPASS score. This is a pass/no credit course.*

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BASIC 061 Reading in the Content Area Language Arts Fiction (1)

Students learn to read critically for academic purposes and GED preparation. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

BASIC 062 Reading in the Content Area Social Studies (1)

Students learn to read social studies materials critically for academic purposes and GED preparation. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

BASIC 063 Reading in the Content Area GED Science (1)

Students learn to read science materials critically and apply, analyze, and evaluate the materials for academic purposes and GED preparation. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

BASIC 064 Reading in the Content Area Nonfiction (1)

Students learn to read nonfiction materials critically for academic purposes and GED preparation. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

BASIC 065 Reading in the Content Area Mathematics (1)

Students learn to read and evaluate materials relating to math instruction and problem solving. Prepares students for the math portion of the GED tests and for academic education. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

BASIC 070 Workplace and Computer Basics (12)

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 GED tests. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

BASIC 072 Basic Skills Review - Level 2 (1-6)

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 073-074 Basic Skills Review - Levels 3-4 (1-6)

For students who need to study in only one or two basic areas. Students study for shorter periods of time, and remain only until the basic skills goals are met. *PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no credit course.*

BASIC 075 Basic GED Preparation (1-15)

Helps students master the skills in writing, critical thinking, social studies, science, reading and mathematics to pass the GED exam.

PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no credit course.

BASIC 076 Advanced GED Preparation (1-15)

Helps students master the skills in writing, critical thinking, social studies, science, reading and mathematics to pass the GED exam.

PREREQUISITE: Instructor's permission and appropriate CASAS score. This is a pass/no credit course.

BASIC 094-098 Special Topics in Adult Basic Education 2-6 (1-12)

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 professional/technical program. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

Behavioral Science (BEHSC)

BEHSC 101 College Experience (2)

Helps first year students adjust to the college experience, develop a better understanding of the learning process, and acquire basic survival skills. Provides support group experience for students in the first critical year of their college experience by assisting them in examining problems common to that experience in an atmosphere less formal than a traditional course.

BEHSC 103 Interpersonal Relations (5)

Assists students in increasing their effectiveness in interacting with other people. Focuses on relationship building skills, maintaining relationships, and developing relationships in transition. Presents communication, conflict resolution and anger management skills in a lecture/discussion format.

BEHSC 107 Career Explorations (5)

For any person entering the labor force for the first time, or who is re-entering the world of work after a period of non-activity, or who wishes to change to a more satisfying occupation. Emphasizes the need of the individual student.

BEHSC 115 Assertiveness Training (3)

Teaches communication skills that help students state their thoughts and feelings honestly, directly, and appropriately in their situations and relationships. Covers the influence of human territoriality on the quality of communication and relationships. Teaches specific assertiveness skills.

BEHSC 180 Introduction to Psychodrama (3)

Exploratory course in beginning therapy introducing students to the fundamental elements and principles of psychodramatic methods. The use of action methods such as role-playing complements traditional verbal approaches in resolving personal problems.

BEHSC 185 Psychology of the Self (5)

Introduces the theoretical paradigms of the human self and methods of optimizing the development of the Self. Students demonstrate through class discussions, essay and multiple choice examinations an understanding of the major paradigm regarding the Psychology of Self. Students develop, implement and evaluate a program of self-understanding using the presented theoretical concepts and methods.

BEHSC 190 Stress Management (5)

Increases student awareness of stress, anxiety and frustration. Provides a broad physical, social and psychological understanding of the human stress response. Provides students with materials from a wide background of stress research and experimentation, offering scientific insight and practical skills for effective stress management. *This is a pass/no credit course.*

BEHSC 194 Special Studies - Behavioral Science 1 (5)

Offers special behavioral science subject matter that is not part of the regular curriculum. As such, the content varies depending upon the requests from students or the opportunity to present unusual topics. *This is a pass/no credit course.*

BEHSC 294 Special Studies - Behavioral Science 2 (1-5)

Content varies each time course is offered. May include studies in transpersonal experiences, intra-psychic phenomena, hypnotically modified behavior, electronically mediated learning, micro-counseling techniques, or other experiences that are therapeutic in nature where need or interest is expressed.

BEHSC 298-299 Independent Study - Behavioral Science 1-2 (3)

For students with basic preparation in counseling or guidance who wish to apply their knowledge and abilities, working under the close supervision of a professional counselor in the community college, secondary schools or community agencies. Content and credits determined by the nature of the student proposal, by the time required to complete the project and by the institution. *PREREQUISITE: Instructor's permission.*

Biology (BIOL)

BIOL& 100 Survey of Biology (5)

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. *Satisfies a lab or natural science requirement for AA degree. Formerly BIOL 100.*

BIOL 103 Introduction to Botany (5)

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 Northwest Ecology (5)

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 Field Studies (3-5)

Focuses on natural history, ecological and environmental topics at specific geographical areas, and involves online, classroom and field work. A reference letter is required. *PREREQUISITE: Instructor's permission. Students must be able to walk 3-7 miles in one day, sleep outside, and follow class and instructor guidelines.*

BIOL 127 Natural Science of Australia and New Zealand (5)

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. Satisfies a natural science requirement for AA degree.*

BIOL 140 Field Trips in Biology (1)

Explores various biological ecosystems of the Pacific Northwest. Locations of the field trips vary from year to year. *PREREQUISITE: Instructor's permission. Satisfies an activity requirement for AA degree.*

BIOL 177 Cooperative Education (1-12)

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.*

BIOL 194 Special Topics - Lecture (1-5)

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.

BIOL 195 Special Topics - Lab (1-4)

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.

BIOL& 211 Majors Cellular (6)

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 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. Formerly BIOL 201.*

BIOL& 212 Majors Animal (6)

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. Satisfies a lab or natural science requirement for AA degree. Formerly BIOL 202.*

BIOL& 213 Majors Plant (6)

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. Satisfies a lab or natural science requirement for AA degree. Formerly BIOL 203.*

BIOL& 241 Human Anatomy - Physiology 1 (5)

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: AP 100 or AP 104 with a minimum grade of 2.0 or instructor's permission. Satisfies a lab or natural science requirement for AA degree. Formerly AP 205.*

BIOL& 242 Human Anatomy - Physiology 2 (5)

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 or higher. Satisfies a lab or natural science requirement for AA degree. Formerly AP 206.*

BIOL& 260 Microbiology (5)

Introduces the characteristics and activities of microorganisms emphasizing 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; or instructor's permission. Satisfies a lab or natural science requirement for AA degree. Formerly BIOL 210.*

BIOL 298 Independent Study - Biology (1-5)

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: Instructor's permission.*

Business Management (BUS)**BUS& 101 Introduction to Business (5)**

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. *RECOMMEND: Writing Skills. PREREQUISITE: Eligible for ENGL 100. Satisfies a social science requirement for AA degree. Formerly B A 101.*

BUS 103 Business Leadership (5)

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 100 or instructor's permission. Satisfies an activity requirement for AA degree.*

BUS 121 Marketing Fundamentals (5)

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 Professional Selling (5)

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.

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BUS 164 Entrepreneurship and Small Business Management (5)

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 100 or instructor's permission.*

BUS 166 Human Relations and Work Readiness (5)

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 Basic Financial Management (5)

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 Career Management Seminar (1)

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 Supervised Work Experience 1 and 2 (1-6)

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 Introduction to International Business (5)

Examines the factors that lead to a business participating in international business. Investigates country demographics, economic systems and theories, investment strategies, cultural perspectives on business negotiations, as well as marketing and human resource management issues. *PREREQUISITE: BUS& 101 or BUS 164 or instructor permission.*

BUS 184 International Business Strategies (5)

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 International Marketing (5)

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 Special Topics 1-3 (5)

Students study and train to meet established needs in business, sales, and supervision practices. Course content varies each time it is offered. Intended to meet the needs of each student. *PREREQUISITE: Instructor permission.*

BUS& 201 Business Law (5)

Focuses on business law and the regulation of business activities. Emphasizes contracts, the uniform commercial code, sales and secured transactions, bankruptcy, and third party contract rights. Illustrates concepts using the case method presentation approach. *PREREQUISITE: READ 094 with a grade of 2.0 or higher; or eligible for READ 104. Satisfies a social science requirement for AA degree. Formerly B A 205.*

BUS 202 Project Management and E-Business (5)

Examines how to manage projects by planning, prioritizing, scheduling, budgeting, and monitoring the project. Emphasizes teamwork and communication skills. Explores e-business, including the use of technology to improve business efficiency, effectiveness, and profitability. *PREREQUISITE: BUS 164 or instructor's permission.*

BUS 205 Community Leadership Seminar (2)

Students learn key leadership skills, and then demonstrate their abilities by leading others within our community. Topics include interpersonal communications, servant leadership principles, emotional intelligence, and presentation and coaching skills. Students spend time improving their leadership skills and developing mentoring relationships by educating classes of high school students about their college experiences. Students develop a college survival guide to be shared with high school students as part of their community outreach efforts. *PREREQUISITE: Eligible for ENGL 100.*

BUS 257 Customer Service Strategies (5)

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. *PREREQUISITE: BUS& 101 or BUS 164.*

BUS 258 Principles of Management and Supervision (5)

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.*

Business Education (BUS E)

BUS E 080 Keyboarding (2)

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.

BUS E 090 Office Accounting (5)

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.*

BUS E 100 Fundamentals of Computers (5)

Introduction of computers for home and business applications. Course content includes history, terminology, word processing, spreadsheets, databases, presentations, desktop information management, and Objective Linking and Embedding (OLE). 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.

BUS E 100.1 Microcomputer Fundamentals: Internet (2)

Self-paced course covering the following concepts: the Internet, using Microsoft Internet Explorer to access the World Wide Web, and using the more popular search engines. Recommended for students who are self-motivated, computer-literate, and self-disciplined. Presented as an independent learning environment with no instructor present.

BUS E 100.2 Microcomputers Fundamentals: Word (2)

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

BUS E 100.3 Microcomputer Fundamentals: Excel (2)

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

BUS E 100.4 Microcomputer Fundamentals: Access (2)

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

BUS E 100.5 Microcomputer Fundamentals: PowerPoint (2)

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

BUS E 101 Beginning Typing/Keyboarding (5)

Uses keyboards to record words and data in the business office, as well as in personal communication. Students learn to operate the alphabet, number, and symbol keys on a computer by touch. Emphasizes speed and accuracy skill development. Students apply these computer skills to formatting basic business documents using a current word processing program. For students with little or no prior keyboarding (typewriting) instruction. *RECOMMEND: BUS E 102 for those with a keyboarding speed in excess of 35 words per minute.*

BUS E 102 Intermediate Keyboarding (5)

Builds on the keyboarding (typewriting) skills and concepts developed in BUS E 101. Continues to emphasize 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. A minimum typing speed of 35 wpm is recommended. *PREREQUISITE: BUS E 101 or equivalent.*

BUS E 103 Advanced Keyboarding (5)

Builds on the keyboarding (typewriting) skills and concepts developed in BUS E 102. Continues to emphasize 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. A minimum typing speed of 45 wpm is recommended. *PREREQUISITE: BUS E 102 or equivalent, and BUS E 112.*

BUS E 107 Typing Speed and Accuracy 1 (4)

For students who know the typewriter keyboard and would like extensive speed and accuracy development. Emphasizes proper technique, rhythm development, straight-copy skill, and accuracy. Knowledge of keyboard and a minimum typing speed of 30 wpm is recommended. *This is a pass/no credit course.*

BUS E 108 Typing Speed and Accuracy 2 (4)

For students who know the typewriter keyboard and would like intensive speed and accuracy skill development. Emphasizes proper technique, rhythm development, straight-copy skill, and accuracy improvement. *PREREQUISITE: BUS E 107. This is a pass/no credit course.*

BUS E 109 Legal Terminology (3)

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.

BUS E 110 Business Math Applications (5)

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.

BUS E 111 Personal Computing (3)

Introduction to the personal computer in a small office/home setting. Includes terminology, file management, word processing, e-mail and the Internet. No previous computer experience required. *Satisfies an activity requirement for AA degree.*

BUS E 112 Beginning Word (5)

Introduces the basic skills of Microsoft Word. Focuses on creating, saving, and printing a document; editing and managing documents; formatting characters and paragraphs; using spellchecker, autocorrect, thesaurus, word count and grammar tools; conducting find and replace; using autotext; manipulating tabs, merging documents, creating headers, footers, footnotes and end notes. A minimum typing speed of 30 wpm is recommended. *PREREQUISITE: BUS E 100 or instructor's permission.*

BUS E 115 Professional Image Building (1)

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.*

BUS E 117 Exploring PowerPoint (2)

Students learn to create and deliver easy, effective, professional-looking presentations using Microsoft PowerPoint. *PREREQUISITE: BUS E 100 or instructor's permission.*

BUS E 118 Basics for Online Education (5)

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.*

BUS E 119 MOS Core and Expert Certification Preparation (7)

Prepares users to take the Microsoft MOS core and expert certification tests in Microsoft Access, Excel, Word and PowerPoint. A minimum typing speed of 30 wpm is recommended. *This is a pass/no credit course.*

BUS E 119.1 Prep Test 1 - Microsoft Certification Access (1)

For users of Microsoft Access for Windows who are preparing to take the Microsoft MOS core certification test. A minimum typing speed of 30 wpm is recommended. *This is a pass/no credit course.*

BUS E 119.2 Prep Test 2 - Microsoft Certification Access (1)

For users of Microsoft Access for Windows who are preparing to take the Microsoft MOS expert certification test. A minimum typing speed of 30 wpm is recommended. *This is a pass/no credit course.*

BUS E 119.3 Prep Test 1 - Microsoft Certification Excel (1)

For users of Microsoft Excel for Windows who are preparing to take the Microsoft MOS core certification test. A minimum typing speed of 30 wpm is recommended. *This is a pass/no credit course.*

BUS E 119.4 Prep Test 2 - Microsoft Certification Excel (1)

For users of Microsoft Excel for Windows who are preparing to take the Microsoft MOS expert certification test. A minimum speed of 30 wpm is recommended. *This is a pass/no credit course.*

BUS E 119.5 Prep Tests - Microsoft Certification PowerPoint (1)

For users of Microsoft PowerPoint for Windows who are preparing to take the Microsoft MOS core and expert certification test. A minimum typing speed of 30 wpm is recommended. *This is a pass/no credit course.*

BUS E 119.6 Prep Test 1 - Microsoft Certification Word (1)

For users of Microsoft Word who are preparing to take the Microsoft MOS core certification test. A minimum typing speed of 30 wpm is recommended. *This is a pass/no credit course.*

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BUS E 119.7 Prep Test 2 - Microsoft Certification Word (1)

For users of Microsoft Word for Windows who are preparing to take the Microsoft MOS expert certification test. A minimum typing speed of 30 wpm is recommended. *This is a pass/no credit course.*

BUS E 120 Machine Transcription (5)

Students develop transcription 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. A college-level composition course is recommended. *PREREQUISITE: BUS E 102 or instructor's permission.*

BUS E 121 Legal Machine Transcription 1 (5)

Develops legal transcription 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. A college-level composition class is recommended. *PREREQUISITE: BUS E 102 and 109; or instructor's permission.*

BUS E 122 Medical Machine Transcription (5)

Develops medical transcription 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. A college-level composition course is recommended. *PREREQUISITE: BUS E 102 and ENGL 108; or instructor's permission.*

BUS E 123 Advanced Medical Machine Transcription (5)

Develops advanced medical transcription 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. A college-level composition course is recommended. *PREREQUISITE: BUS E 122 or instructor's permission.*

BUS E 124 Medical Transcription Production (5)

Develops medical transcription production 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 and BUS E 112 and 123.*

BUS E 126 Pharmaceutical Basics (2)

Introductory course in pharmacology including the study of terminology, drug classifications and usage. Emphasizes knowledge 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.*

BUS E 127 Overview of Human Diseases for Non-Clinicians (3)

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.

BUS E 129 Legal Transcription 2 (5)

Students refine legal transcription 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: BUS E 121.*

BUS E 130 Business Correspondence (5)

Emphasizes techniques to develop and compose psychologically-sound business letters and memorandums dealing with good news, bad news, and persuasive messages. Teaches students to write a clear and well-organized business report. *PREREQUISITE: Eligible for ENGL 109.*

BUS E 132 Business Communication Applications (5)

Introduces PowerPoint, Outlook and One Note. Focuses on the applications' basic tools and their usage in business. *PREREQUISITE: BUS E 100 or instructor's permission.*

BUS E 140 Records Management (5)

An introduction to filing methods, related rules and applications for paper and electronic records management. Uses Microsoft Access extensively for lab applications. Students create appropriate electronic file structures for various record volumes. Covers filing equipment, supplies, microfilms, vital records plan, retention scheduling, and the records life cycle process. *RECOMMEND: BUS E 185. PREREQUISITE: BUS E 100 or instructor's permission.*

BUS E 142 Basic Concepts of Healthcare Delivery Systems (5)

An introduction to the organization, financing, regulatory and delivery structures of healthcare services, providers, payers, and agencies in the United States. Focuses on the healthcare organization, accreditation standards, payment and reimbursement systems. Addresses current issues in healthcare to enrich the students understanding and breadth of knowledge of the U.S. healthcare system, along with the roles and functions of various healthcare professionals. *PREREQUISITE: AP 100 or AP 103, BUS E 100, and ENGL 108.*

BUS E 143 Medical/Legal Aspects of Health Information (5)

Overview of health information systems used to identify, file, and store patient health information. Students gain fundamental knowledge of 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: BUS E 142 or instructor's permission.*

BUS E 144 Computer Applications in Healthcare (5)

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: BUS E 142 or instructor's permission.*

BUS E 145 International Classification of Medical Diseases (5)

Introduces ICD-9-CM 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. Teaches students to assign valid diagnostic codes using source documents. *PREREQUISITE: AP 100, BUS E 126, BUS E 127 and ENGL 108.*

BUS E 146 Current Procedural Terminology Medical Coding (5)

Introduces coding in ambulatory settings using Current Procedural Terminology (CPT), and Health Care Financing Administration Common Procedure Coding System (HCPCS) Level 1. General content, 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: BUS E 145.*

BUS E 150 Introduction to Windows (5)

Introduces Microsoft Windows graphical user interface, the preparation of text and graphics documents, and the management of windows on the desktop. Includes the customization of the Windows desktop, techniques for working with files, folders and documents, and communication with other computers through the Internet. *PREREQUISITE: BUS E 100 or instructor's permission.*

BUS E 157 Introduction to Outlook (2)

Focuses on the application's basic tools for sending and receiving e-mails; organizing schedules and events; making journal entries; and maintaining contact lists, to-do lists, and notes. Covers some customization. *PREREQUISITE: BUS E 100 or instructor's permission.*

BUS E 162 Introduction to Excel (5)

Introduces the basic skills for developing spreadsheets in Microsoft Excel. Students prepare and format worksheets, and maintain and enhance workbooks. *PREREQUISITE: BUS E 100 or instructor's permission.*

BUS E 163 Advanced Excel (5)

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: BUS E 162, any three of the following: BUS E 174.1, 174.2, 174.3, 174.4, 174.5, or instructor's permission.*

BUS E 170.1 Beginning Keyboarding - Alphabet Keys (5)

Introduces alphabetic keyboard including correct finger placement and reaches. Enables students to develop touch-keyboarding skills in a minimal amount of time.

BUS E 170.2 Keyboarding - Mastering 10-Key and Symbols (1)

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.

BUS E 170.3 Keyboarding - Speed and Accuracy - Skill Build (1)

Enables students to develop skills to improve typing speed and accuracy. Reinforces touch-typing technique. *RECOMMEND: Keyboarding skills.*

BUS E 171.1 PowerPoint: Preparing a Presentation (1)

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.*

BUS E 171.2 PowerPoint: Design with Graphics and Multimedia (1)

Focuses on creating diagrams for processes and relationships; creating a photo album; inserting movies and sound; creating tables and charts. *RECOMMEND: BUS E 171.1 and keyboarding skills.*

BUS E 171.3 PowerPoint: Customize and Incorporate Web Features (1)

Focuses on developing and organizing content, working with color; customizing design templates; running custom slide shows; preparing presentations for Web delivery. *RECOMMEND: BUS E 171.1 and keyboarding skills.*

BUS E 173.1 Word: Create, Edit and Format Documents (1)

Focuses on Microsoft Word basics such as document formatting, document organization, text and paragraph formatting, styles.

BUS E 173.2 Word: Tables and Sharing Documents (1)

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. *RECOMMEND: BUS E 173.1 and keyboarding skills.*

BUS E 173.3 Word: Mail Merge and Other Productivity Tools (1)

Focuses on using templates to design documents and apply and customize themes. Teaches mailmerge concepts such as label and letter creation using a database or spreadsheet data source. *RECOMMEND: BUS E 173.1 and keyboarding skills.*

BUS E 173.4 Word: Create a Newsletter (1)

Teaches use of Microsoft Word to design and create a newsletter, as well as working with objects and using object linking and embedding. *RECOMMEND: BUS E 173.1 and keyboarding skills.*

BUS E 173.5 Word: Creating Forms, Macros and Document Security (1)

Introduces creating an electronic form from a Microsoft Word template, protecting the form, and using authentication. Focuses on recording and editing macros. *RECOMMEND: BUS E 173.1 and keyboarding skills.*

BUS E 174.1 Excel: Introduction to Formulas and Functions (1)

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.*

BUS E 174.2 Excel: Charts and Working with Large Worksheets (1)

Focuses on using Excel's charting feature and working with large worksheets. *RECOMMEND: BUS E 174.1 and keyboarding skills.*

BUS E 174.3 Excel as a Database (1)

Covers Excel's database functions, pivot tables, conditional functions, and amortization tables. *RECOMMEND: BUS E 174.1 and keyboarding skills.*

BUS E 174.4 Excel: Data Consolidation and What-If Analysis (1)

Focuses on data consolidations, links, and formula auditing. Covers use of spreadsheets for decision making with "what-if" analysis. *RECOMMEND: BUS E 174.1 and keyboarding skills.*

BUS E 174.5 Excel: Collaboration, the Web, and Macros (1)

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: BUS E 174.1 and keyboarding skills.*

BUS E 175 Instructor Assistant (1-5)

Students assist the instructor including working with students individually in business education classes, answering questions, doing tutorial work, and checking papers. *PREREQUISITE: Instructor's permission.*

BUS E 176.1 Access: Create and Modify a Database (1)

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.*

BUS E 176.2 Access: Use Queries to Produce Information (1)

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.*

BUS E 176.3 Access: Create and Modify Forms (1)

Introduces data protection to ensure data integrity, validation and reliability. Also introduces students to forms using Microsoft's 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.*

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BUS E 176.4 Access: Create and Modify Reports (1)

Introduces the user to reports using Microsoft's 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. Basic knowledge of computer, keyboarding, and Access skills are recommended.

BUS E 177 Business Education Work Experience 1 (1-12)

Allows student to gain experience in full or part-time employment directly related to their programs and interests. Students may receive a salary or volunteer. *PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.*

BUS E 178-179 Business Education Work Experience 2-3 (1-12)

Allows students to gain experience in full or part-time employment directly related to their programs and interests. Students may receive a salary or volunteer. *PREREQUISITE: Instructor's permission.*

BUS E 184 Internet and Basic Web Design (5)

Teaches elements of HTML and XHTML including creating Web pages with graphics and links, controlling page layout with frames and tables, using image mapping techniques, incorporating cascading style sheets, and creating a multi-page Web site. *PREREQUISITE: BUS E 150 or instructor permission.*

BUS E 185 Introduction to Microsoft Access (5)

Provides students with introductory Microsoft Access database training, specifically storage of data in a logical manner for later retrieval and use in the business environment. *PREREQUISITE: BUS E 100 or instructor's permission.*

BUS E 186 Advanced Microsoft Access (5)

Focuses on advanced multi-table database design and techniques using Microsoft Access. *PREREQUISITE: BUS E 185.*

BUS E 200 Production Keyboarding (5)

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. A typing speed of 55 wpm is recommended. *PREREQUISITE: BUS E 103 or equivalent, and BUS E 112.*

BUS E 201 Legal Production Keyboarding (5)

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. A typing speed of 55 wpm is recommended. *PREREQUISITE: BUS E 103 or equivalent, BUS E 109, and BUS E 112.*

BUS E 202 Medical Production Keyboarding (5)

Helps develop decision-making skills and improves keyboarding (typing) and proofreading skills. Students work from an unarranged medical copy with minimal narrative instruction. Emphasizes speed and accuracy improvement, as well as medical terminology. Projects include preparation of documents commonly prepared in a medical office setting using a current word processing program. Projects include medical correspondence, documents and records, reports, forms, and tables. Emphasizes producing error-free copy. A minimum typing speed of 55 wpm is recommended. *PREREQUISITE: BUS E 103 or equivalent, BUS E 112, BUS E 122, and ENGL 108.*

BUS E 212 Computer Application for Teachers (5)

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.

BUS E 214 Introduction to Information Security (5)

Introduces the 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. *RECOMMEND: BUS E 184. PREREQUISITE: BUS E 150 or instructor permission.*

BUS E 216 Computer Support Internship I (2-5)

Students assist Business Education instructors with computer applications and basic hardware functions. Students may receive 2-5 credits toward the completion of the Business Applications Specialist degree. *PREREQUISITE: Instructor's permission.*

BUS E 217 Computer Support Internship 2 (2-5)

Students assist Business Education instructors in troubleshooting and maintaining hardware and software, as well as training lab assistants. Students may receive 2-5 credits toward the completion of the Business Application Specialist degree. *PREREQUISITE: BUS E 216 and instructor's permission.*

BUS E 218 Basic Office PC Support (5)

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: BUS E 150 or instructor's permission.*

BUS E 219 Basic Networking Concepts (5)

A basic course in the management of a local area network. Identifies the responsibilities of the network system administrator and develops necessary skills. *PREREQUISITE: BUS E 150 or instructor's permission.*

BUS E 235 Legal Office Procedures (5)

Provides a study of activities most often performed by a legal assistant. Topics include legal office environment, communication services and management, legal code of ethics, scheduling/docketing techniques, messenger services, Washington's legal court system structure, legal billing procedures, wills/probate procedures, job search and informational interview, preparation of job-ready resume/portfolio, leadership, and human relations. *PREREQUISITE: BUS E 103 and 121.*

BUS E 245 Medical Office Procedures (5)

Provides a study of activities most often performed by medical assistants and transcriptionists. Topics include medical office environment, communication services and responsibilities, medical research, file management, medical code of ethics, scheduling techniques, medical billing procedures, medical records, job search and informational interview, preparation of job-ready resume/portfolio, computerized patient scheduling/billing software, leadership, and human relations. *PREREQUISITE: BUS E 103 and 122.*

BUS E 246 Intermediate Medical Coding (5)

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: BUS E 145 and 146; or instructor's permission.*

BUS E 248 Healthcare Reimbursement Methodology (5)

Overview of the medical billing profession, the claims process, and federal billing guidelines. Study of major medical third-party payers including coverage offered, eligibility, and reimbursement methodologies. Students learn to determine case mix index and reimbursement procedures for healthcare settings, including physician billing, inpatient/outpatient billing, and billing for clinics and labs. *PREREQUISITE: BUS E 142, 143, 145 and 146; or instructor's permission.*

BUS E 250 Office Administration (5)

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.

BUS E 255 Advanced Word (5)

Focuses on using bookmarks and hyphenation; creating annotations and macros; adding borders, frames, and pictures; using Microsoft Draw, 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. A minimum typing speed of 30 wpm is recommended. *PREREQUISITE: BUS E 112 or any three of the following: BUS E 173.1, 173.2, 173.3, 173.4, 173.5; or instructor's permission.*

BUS E 266 Inside Microsoft Office (5)

Focuses on the use of advanced Microsoft Office including object linking and embedding (OLE) and the integration of applications. Enhances prior application skills through the use of macros and switchboards. These skills culminate in a professional PowerPoint group presentation that also incorporates Word, Excel, and Access concepts. *PREREQUISITE: BUS E 100 or IT 101.*

BUS E 297 Independent Study - Business Education (1-5)

Includes special courses and topics designed for students such as individual learning in business and office education. Students may register for a contracted learning experience by obtaining permission from a business education faculty advisor. *PREREQUISITE: Instructor's permission.*

Carpentry (CARP)**CARP 101.1 Residential and Light Commercial Carpentry (1-13)**

A competency-based course. Major areas of study include in site and building layout procedures; footing and foundation forming; concrete specifications, calculations, and ordering; concrete placement and finishing; common materials, fasteners, and hardware;

and OSHA/WISHA construction safety standards and compliance. 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 101.2 Carpentry Seminar 1 (1-3)

A linked class to CARP 101.1. Offers in-depth study of residential and light commercial carpentry. Major areas of study include basic carpentry terms and knowledge; common carpentry related hand and power tools use; basic carpentry mathematics; site and building layout procedures; footing and foundation forming; concrete specifications, calculations, and ordering; concrete placement and finishing; common materials, fasteners, and hardware; and OSHA/WISHA construction safety standards. Credits are awarded upon competency completion. Leadership, workplace ethics, human relations, cultural diversity, and craftsmanship are integral to instruction. *PREREQUISITE: Instructor's permission.*

CARP 102.1 Residential and Light Commercial Carpentry (1-13)

A competency-based course. Major areas of study include floor, roof, and wall framing terms and knowledge; basic carpentry mathematics related to framing; floor, wall, and truss roof assembly and erecting procedures; Uniform Building Code requirements relating to framing; light gauge steel framing; exterior door and window installation; roof covering material and installation; 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 102.2 Carpentry Seminar 2 (1-3)

A linked class to CARP 102.1. Offers in-depth study of residential and light commercial carpentry. Major areas of study include floor, roof and wall framing materials and specifications; common framing related hand and power tool use; basic carpentry mathematics related to framing; floor, wall and truss roof layout procedures; Uniform Building Code requirements relating to framing; light gauge steel framing material and specifications; exterior door and window specifications; roof covering material and specifications; and related OSHA/WISHA construction safety standards. Credits are awarded upon competency completion. Leadership, workplace ethics, human relations, cultural diversity, and craftsmanship are integral to instruction. *PREREQUISITE: Instructor's permission.*

CARP 103.1 Residential and Light Commercial Carpentry (1-13)

A competency-based course. Major areas of study include exterior and interior finishing materials and specifications; common exterior and interior finishing materials and

specifications; basic carpentry mathematics related to exterior and interior finishing; insulation installation and specifications; drywall installation and finishing; interior doors and running trim installation; cabinet and countertop installation; basic deck and sidewalk construction; 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 103.2 Carpentry Seminar 3 (1-3)

A linked class to CARP 103.1. Offers in-depth study of residential and light commercial carpentry. Major areas of study include exterior and interior finishing materials and specifications; common exterior and interior finish related hand and power tools; insulation materials and specifications; drywall materials and specifications; cabinet/countertop materials and specifications; basic deck and sidewalk materials and specifications; and related OSHA/WISHA construction safety standards. Credits are awarded upon competency completion. Leadership, workplace ethics, human relations, cultural diversity, and craftsmanship are integral to instruction. *PREREQUISITE: Instructor's permission.*

CARP 144 Residential Blueprint Reading (3)

Covers reading and interpreting architectural blueprints for residential and light commercial construction.

CARP 145 Stair Design and Construction (4)

Introduces the design and construction of residential and commercial stair construction. Topics include stair design factor, building code requirements, stair layout, cutting, installation, and various tread/riser installations.

CARP 146 Basic Cabinet Construction (4)

Introduces basic box cabinet design and construction. Topics include basic cabinetry terminology; basic cabinet standard sizes and specifications; hardwood and softwood lumber types and grading; sheet material types, grades and sizes; basic wood joinery; fasteners and adhesives; stationary woodworking machinery set-up; operations and safety procedures; portable power tool operations; and surface preparation.

CARP 147 Residential Remodeling Practices (6)

Introduces residential remodeling practices. Topics include planning, demolition, tying into existing buildings, basic electrical and plumbing practices, permit processes, matching existing finished material, and estimating. Most skill development takes place at an off-site location where students work on a full-size remodeling project. *PREREQUISITE: Instructor's permission.*

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CARP 148 Material Estimating (1-4)

Introduces estimating materials, services and other costs related to residential home construction using general pick-off methods.

CARP 149 Rafter Cutting and Assembly (4)

Covers calculating lengths, laying-out, and cutting other roof framing members such as hip and valley jacks, ridge boards, cripple jacks and other related special rafter components. Covers the study of load designs and span requirements for different types of framing material.

CARP 151 International Residential Code (3)

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.

CARP 152 International Building Code (3)

Teaches students general and specific requirements of building codes, particularly as they apply to the commercial carpenter, contractor, or builder.

CARP 177-179 Carpentry Work Experience 1-3 (1-12)

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 Special Studies - Carpentry (1-13)

Students study and develop skills to meet student-identified needs within the carpentry trade. *PREREQUISITE: Instructor's permission.*

Chemistry (CHEM)

CHEM& 121 Introduction to Chemistry (5)

Beginning course for the non-science student interested in chemistry with less mathematical rigor than CHEM& 140. Taken 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. Satisfies a lab or natural science requirement for AA degree. Formerly CHEM 101.*

CHEM& 131 Introduction to Organic Chemistry and Biochemistry (5)

Satisfies allied health program requirements. Covers structure, nomenclature and reactions of organic and biological compounds, and applications to living systems. *PREREQUISITE: CHEM& 121 or instructor's permission. Satisfies a lab or natural science requirement for AA degree. Formerly CHEM 102.*

CHEM& 140 General Chemistry Prep with Lab (5)

Preparatory course for those 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. *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. RECOMMEND: Eligible for READ 104. 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. Satisfies a lab or natural science requirement for AA degree. Formerly CHEM 105.*

CHEM& 161 General Chemistry with Lab I (6)

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. *RECOMMEND: Eligible for ENGL& 101. 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. Satisfies a lab or natural science requirement for AA degree. Formerly CHEM 140.*

CHEM& 162 General Chemistry with Lab II (6)

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. Satisfies a lab or natural science requirement for AA degree. Formerly CHEM 150.*

CHEM& 163 General Chemistry with Lab III (6)

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. Satisfies a lab or natural science requirement for AA degree. Formerly CHEM 160.*

CHEM 177 Chemistry Work Experience (1-12)

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.

CHEM 194 Special Topics - Chemistry 1 (1-5)

Allows chemistry faculty to teach topics of special interest in chemistry. Not taught on a regular basis. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

CHEM 195 Special Topics - Chemistry 2 (1-5)

A continuation of CHEM 194 which allows chemistry faculty to teach topics of special interest in chemistry. Not taught on a regular basis. *PREREQUISITE: Instructor's permission.*

CHEM& 261 Organic Chemistry with Lab I (6)

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. Satisfies a lab or natural science requirement for AA degree. Formerly CHEM 235.*

CHEM& 262 Organic Chemistry with Lab II (6)

Continuation of CHEM& 261. *PREREQUISITE: CHEM& 261. Satisfies a lab or natural science requirement for AA degree. Formerly CHEM 236.*

CHEM& 263 Organic Chemistry with Lab III (6)

A continuation of CHEM& 262. Covers the chemistry of selected classes of biomolecules. *PREREQUISITE: CHEM& 262. Satisfies a lab or natural science requirement for AA degree. Formerly CHEM 237.*

CHEM 296 and 299 Independent Study - Chemistry 1 and 2 (1-5)

Permits a student to pursue a special field of interest in chemistry under the guidance of an instructor. *PREREQUISITE: Instructor's permission.*

Chinese (CHIN)

CHIN 111 First Year Chinese for Heritage Learners (5)

Intended for students with some formal or home training in listening and speaking Mandarin Chinese, but who are not proficient in reading and writing Mandarin. 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. *PREREQUISITE: Not appropriate for students who are proficient in written Mandarin or for students whose first language is not Chinese. Enrollment limited to students who test below novice-high level. Satisfies a humanities/fine arts/ English requirement for AA degree.*

CHIN& 121 Chinese I (5)
 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. Satisfies a humanities/fine arts/ English requirement for AA degree. Formerly CHIN 101.*

CHIN& 122 Chinese II (5)
 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. Satisfies a humanities/fine arts/ English requirement for AA degree. Formerly CHIN 102.*

CHIN& 123 Chinese III (5)
 Completes the study of Mandarin Chinese at the elementary level. Focuses on listening, speaking, reading and writing. Emphasizes pronunciation, vocabulary development, complex sentence structure, and writing with Chinese characters. *PREREQUISITE: A grade of 2.0 or higher in CHIN& 122 or equivalent with instructor's permission. Satisfies a humanities/fine arts/ English requirement for AA degree. Formerly CHIN 103.*

Criminal Justice (CJ)

CJ& 101 Introduction to Criminal Justice (5)
 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. Formerly CRJ 100.*

CJ& 105 Introduction to Corrections (5)
 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. Formerly CRJ 230.*

CJ& 110 Criminal Law (5)
 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. Formerly CRJ 225.*

CJ 115 Fingerprint Science (5)
 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. *Formerly CRJ 115.*

CJ 177-179 Criminal Justice Work Experience 1-3 (1-5)
 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. Formerly CRJ 177-179.*

CJ 200 Individual Rights in Criminal Justice (5)
 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. Formerly CRJ 200.*

CJ 205 Criminal Evidence (5)
 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. Formerly CRJ 205.*

CJ 220 Multicultural Diversity in Criminal Justice (5)
 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. Formerly CRJ 220.*

CJ 236 Community Oriented Policing (5)
 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. Formerly CRJ 240.*

CJ& 240 Introduction to Forensic Science (5)
 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. Formerly CRJ 255.*

CJ 294 Special Topics - Criminal Justice (5)
 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. *Formerly CRJ 294.*

CJ 299 Independent Study - Criminal Justice (1-5)
 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. Formerly CRJ 299.*

Communication Studies (CMST)

CMST 100 Fundamentals of Oral Communication (5)
 Develops critical thinking and problem-solving skills related to communication in business and organizational settings. Written exercises include a cover letter and resume. Oral activities include interpersonal exercises, group discussion, giving directions and interviewing. *Formerly COMM 100.*

CMST& 102 Introduction to Mass Media (5)
 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. Formerly JOURN 201.*

CMST 177-179 Communication Work Experience 1-3 (1-12)
 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. Formerly COMM 177-179.*

CMST 194 Special Studies - Communication (1-5)
 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. *Formerly COMM 194.*

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CMST& 210 Interpersonal Communication (5)

For students who wish to gain greater insight into communication that occurs in more personal relationships in order to better understand and control their own communication behavior, and thus more effectively manage their interpersonal relationships. *PREREQUISITE: Eligible for READ 104, READ 104 or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly COMM 110.*

CMST 212 Persuasion and Propaganda (5)

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. *RECOMMEND: Eligible for ENGL& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly COMM 212.*

CMST 215 Critical Analysis of Media (5)

Examines basic theories of media analysis and effects. Covers stereotypes, persuasive messages, and violent and sexual imagery. Applies media theories to a variety of media including movies, television, radio, and print. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly COMM 215.*

CMST& 220 Public Speaking (5)

Beginning-level course that helps students develop confidence in addressing audiences in community and professional settings. Students examine interpersonal variables that affect communication, compose and deliver speeches, and evaluate student presentations. *PREREQUISITE: COMPASS placement in ENGL 100 or 081 with a grade of 2.0 or higher, and eligible for READ 104 or higher. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly COMM 101.*

CMST& 230 Small Group Communication (5)

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. *RECOMMEND: Eligible for ENGL& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly COMM 234.*

CMST 238 Intercultural Communication (5)

Looks at communication across cultures on the interpersonal and intergroup levels. Investigates the components of culture that work to affect the communication of members in and across cultures. 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. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly COMM 238.*

CMST 245 Argumentation (5)

Introduces and explores the basic theories and practices of argumentation. Discusses the different types of arguments and the tools (theoretical and practical) needed to analyze, understand, and construct arguments. Through in-class projects, students develop the skills necessary to test and apply the theoretical and practical aspects of argumentation. Focuses on the oral presentation of arguments. Uses written work to support and provide context for the oral argumentation practiced in class. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly COMM 245.*

CMST 299 Independent Study - Communication Studies (1-5)

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, or a topic that a member of the department is qualified and willing to direct and evaluate, and permission from the division chair and instructor. Formerly COMM 299.*

Cooperative Education (COOP)

COOP 171 Work Experience Seminar (1)

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.

Computer Reporting Technologies (CRPT)

CRPT 080 Machine Shorthand Lab (1)

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 Machine Shorthand Theory (3-4)

Studies the theory and arrangement of the keyboard. Teaches Sten-Ed Realtime Theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. Students use Computer Tutor to reinforce theory.

CRPT 091 Machine Shorthand Theory - Advanced (3-4)

Continues to study the theory and arrangement of the keyboard. Teaches Sten-Ed Realtime Theory. Students use Computer Tutor to reinforce theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. *PREREQUISITE: CRPT 090 or 100.1.*

CRPT 092 Machine Shorthand 40 wpm (3-4)

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 Machine Shorthand 60 wpm (3-4)

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 Machine Shorthand 80 wpm (5-6)

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 Machine Shorthand 100 wpm (5-6)

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 Machine Shorthand 120 wpm (5-6)

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 Machine Shorthand
140 wpm (5-6)**
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 Machine Shorthand
160 wpm (5-6)**
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 Machine Shorthand
180 wpm (5-6)**
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 Machine Shorthand
Theory 1 (10)**
Studies the theory and arrangement of the keyboard. Teaches StenEd Realtime Theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. Students use Computer Tutor to reinforce theory.

**CRPT 100.2 Machine Shorthand
Theory 2 (10)**
Studies the theory and arrangement of the keyboard. Teaches StenEd Realtime Theory. Includes intensive practice dictation with emphasis on rapid and accurate reading of notes. Students use Computer Tutor to reinforce theory. *PREREQUISITE: CRPT 100.1.*

**CRPT 101.1 Machine Shorthand
Theory 3 (10)**
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 transcription. *PREREQUISITE: CRPT 100.2.*

**CRPT 101.2 Machine Shorthand
60 wpm (10)**
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 permission and concurrent enrollment with CRPT 080.*

**CRPT 102 Machine Shorthand
80 wpm (8-12)**
Concentrated drill and dictation on two-voice testimony, jury charge, literary, and medical material. Students should attain 80 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 093 or 101.2.*

**CRPT 133 Machine Shorthand
100 wpm (8-16)**
Concentrated drill and dictation on two-voice testimony, jury charge, literary, and medical material. Students should attain 100 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 094 or 102.*

**CRPT 134 Machine Shorthand
120 wpm (8-16)**
Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 120 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 095 or 133.*

**CRPT 135 Machine Shorthand
140 wpm (8-16)**
Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 140 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 096 or 134.*

**CRPT 136 Machine Shorthand
160 wpm (8-16)**
Concentrated drill and dictation on two-voice testimony, multi-voice testimony, jury charge, literary, and medical material. Students should attain 160 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 097 or 135.*

**CRPT 153 Court Reporting
Procedures 1 (5)**
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 Court Reporting
Procedures 2 (5)**
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 Court Reporting/
Captioning Work Experience 1-3 (1-12)**
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 Machine Shorthand
180 wpm (8-16)**
Concentrated drill and dictation on two-voice and multi-voice testimony, jury charge, literary, and medical material. Students should attain 180 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 098 or 136.*

**CRPT 202 Machine Shorthand
200 wpm (8-16)**
Concentrated drill and dictation on two-voice and multi-voice testimony, jury charge, literary, and medical material. Students should attain 200 wpm on new material with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 201.*

**CRPT 203 Machine Shorthand
225 wpm (8-16)**
Concentrated drill and dictation on two-voice and multi-voice testimony, jury charge, literary and medical material. Students should attain 225 wpm on two voice testimony with a minimum of 95 percent accuracy, 200 wpm on jury charge and 180 wpm on literary with a minimum of 95 percent accuracy in transcription. *PREREQUISITE: CRPT 202.*

**CRPT 250 Computer-Aided
Transcription (3)**
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.*

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CRPT 251 Introduction to Captioning/ Alternative Careers (3)

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 250 or instructor's permission.*

CRPT 252 Captioning Internship I (4)

Teaches students types, applications, and environments of captioning, as well as equipment/software considerations. Discusses styles and aesthetics of captioning including industry-approved guidelines for captioning preparation, formats, and methods of presentation, text placement, presentation rate, special considerations, equipment requirements, and related topics. *PREREQUISITE: CRPT 251 or instructor's permission.*

CRPT 253 Captioning Internship 2 (4)

Students receive technical instruction and hands-on experience simulating the captioning experience. Students use the Internet to research realtime captioning, troubleshooting and system support. Focuses on dictionary entries, prefixes/suffixes, writing skills, use of phonetic tables, building endurance, and practice strategies, and other related topics. Students practice continued refinement of realtime skills using the steno machine through audio and video drills. *PREREQUISITE: CRPT 252 or instructor's permission.*

CRPT 254 Captioning Internship 3 (4)

Students receive further technical instruction and experience in the broadcast captioning environment. Focuses on the captioning process from job assignment, research, dictionary prep, writing session, and file submission for quality control review. Students practice using taped broadcast news productions for hands-on practice and endurance building. Focuses on dictionary building and maintenance in current local, national, and international news, politics and government, sports, food, arts and entertainment, and other related topics. Students must have successfully completed their 160 wpm literary requirement prior to enrolling in this class. *PREREQUISITE: CRPT 201 and 253; or instructor's permission.*

CRPT 255 Computer-Aided Transcription-Advanced (3)

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& 131 Computer Science I C++ (5)

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. Satisfies a natural science requirement for AA degree. Formerly C SCI 142.*

CS 132 C++ Data Structures (5)

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 and MATH& 151. Satisfies a natural science requirement for AA degree. Formerly C SCI 143.*

CS& 141 Computer Science I Java (5)

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: IT 102 or MATH& 142. Satisfies a natural science requirement for AA degree. Formerly C SCI 144.*

CS 145 Java 2 (5)

A continuation of CS& 141. Uses Java language to cover topics such as classes and interfaces, inheritance, basic design principles, exceptions, stream I/O, user interfaces, recursion, elementary data structures and associated algorithms (lists, queues, stacks, trees); and introduces performance analysis and implementation tradeoffs. Successful completion of the course gives students the tools they need to construct substantial computer programs and understand computers and software. Course also provides a good foundation for further study in computer science and engineering. *PREREQUISITE: CS& 141. Satisfies a natural science requirement for AA degree. Formerly C SCI 145.*

Design Technology (D T)

D T 100 Introduction to CADD/CAM (7)

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 Technical Drafting (1-7)

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 Drafting Fundamentals (4)

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 Machine Drafting 1 (3)

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 Descriptive Geometry (7)

Covers 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 Descriptive Geometry (4)

Covers 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 D T 102. *PREREQUISITE: D T 101 or 101.2.*

D T 102.2 Machine Drafting 2 (3)

Covers 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 D T 102. *PREREQUISITE: D T 102.1.*

D T 105 Design Drafting Careers (2)

Covers design drafting including the types of jobs, required skills, and degree and certificate programs offered at GRCC. Introduces competencies required for design drafting. Students prepare a program of study to achieve their educational goal.

D T 110 Introduction to AutoCAD (4)

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 Introduction to KeyCreator (4)

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 Introduction to SolidWorks (4)

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 Geometric Dimensioning and Tolerancing (4)

Geometric Dimensioning and Tolerancing (GD&T) is an international technical language of symbols used to describe the function and relationship of a part's feature. The symbology of GD&T, as defined in the ASME Y14.5 standard, is understood and applied by all designing and manufacturing communities. Students learn to recognize, interpret and apply GD&T theories and symbols. Students study applicable mathematical formulas.

D T 125 Civil Drafting 1 (5)

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 131 Mechanical Drafting - CADD (7)

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 3-D CADD/CAM (7)

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 Architectural Drafting 1 (5)

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 REVIT Architecture 1 (4)

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 Structural Drafting - Steel (4)

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 Structural Drafting - Concrete (4)

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 Structural Drafting - Wood (4)

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 Technical Illustration (7)

Emphasizes visualization by developing three dimensional 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 Electrical and Electronic Drafting (CADD) (5)

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 Electronics Drafting (3)

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 Drafting Work Experience (3-12)

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.*

D T 177 Drafting Work Experience 1 (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. *This is a pass/no credit course.*

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D T 178 Drafting Work Experience 2 (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 177. This is a pass/no credit course.*

D T 179 Drafting Work Experience 3 (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 Leadership Skills 1-3 (1)

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 Independent Study - Drafting (1-5)

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 ADDA Certification Preparation (2)

Strengthens students 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 Advanced AutoCAD Development 1 (4)

Introduces the tools and skills necessary to develop advanced utilities to improve 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 Civil Drafting 2 (4)

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 including 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 Mechanical Design (CADD) (7)

Teaches advanced principles, techniques and applications of drafting technology required for the preparation of detail and assembly drawings. Course is based on current industrial 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 Drafting and Design Projects (CADD) (7)

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 Introduction to Inventor (4)

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 Advanced 3-D CADD/CAM (4)

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 Intermediate Inventor (3)

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 Electrical and Mechanical Building Systems (5)

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 Architectural Drafting 2 (4)

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 Printed Circuit Board Design (CAD) (4)

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 Drafting Work Experience 4 (3)

Supervised work experience at an approved training location. Work experience activities are opportunities for students to use their drafting knowledge and skills. Students work a minimum of 15 hours each week. *PREREQUISITE: D T 179. This is a pass/no credit course.*

D T 278 Drafting Work Experience 5 (3)

Supervised work experience at an approved training location. Work experience activities are opportunities for students to use their drafting knowledge and skills. Students work a minimum of 15 hours each week. *PREREQUISITE: D T 277. This is a pass/no credit course.*

D T 279 Drafting Work Experience 6 (3)

Supervised work experience at an approved training location. Work experience activities are opportunities for students to use their drafting knowledge and skills. Students work a minimum of 15 hours each week. *PREREQUISITE: D T 278. This is a pass/no credit course.*

D T 299 Independent Study - Drafting (1-5)

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.*

Dance (DANCE)

DANCE 101 Introduction to Dance (3)

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

DANCE 102 Dance Technique 1 (3)

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 Dance Technique 2 (3)

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 Pointe Technique (2)

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 Choreography Workshop (3)

Students presents rehearsal and performance of dance works in concert. Students practices 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.

Drama (DRAMA)

DRAMA& 101 Introduction to Theatre (5)

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. Formerly DRAMA 102.*

DRAMA 111 Rehearsal and Performance 1 (5)

Students participate in play production and performance. *Satisfies an activity requirement or a humanities/fine arts/English requirement for AA degree. Formerly DRAMA 111.*

DRAMA 112 Rehearsal and Performance 2 (5)

Students participate in play production and performance at an intermediate level. *Satisfies a humanities/fine arts/English requirement for AA degree. PREREQUISITE: DRAMA 111. Formerly DRAMA 112.*

DRAMA 113 Rehearsal and Performance 3 (5)

Students participate in play production and performance at an advanced level. *PREREQUISITE: DRAMA 112. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly DRAMA 113.*

DRAMA 120 The Art of the Film (5)

Instills an appreciation for the motion picture as an art form, covering aspects of style, theme, genre, and cinematic techniques. Considers films as a vital, artistic and emotional experience. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly DRAMA 120.*

DRAMA 121 Contemporary American Movies (5)

Examines contemporary American movies: directors, actors, style, and themes of cultural diversity. Focuses on the examination of popular films for greater understanding of cinematic aesthetics and greater awareness of how movies today both reflect and influence values of our culture, with special focus on diversity of gender, ethnicity and class. *Satisfies humanities/fine arts/English requirement for AA degree. Formerly DRAMA 121.*

DRAMA 141 Pop Culture in Movies and Television (1-5)

Studies the dramatic and cinematic aesthetics of modern movies and episodic television. Focuses on the examination of popular film and TV dramas and sitcoms for greater understanding of the art of cinema and drama, as well as greater awareness of self and society. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly DRAMA 141.*

DRMA 151 Acting - Living the Role (5)

Presents the psychological approach to acting. Students practice observation of personality traits and types, and techniques for concentrating ones consciousness into the character being played. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly DRAMA 151.*

DRMA 152 Acting - Technical Aspects (5)

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. Formerly DRAMA 152.*

DRMA 153 Acting Workshop (5)

Offers the opportunity for students of varying abilities and interests in drama to learn about acting through performance experiences in scenes, one-act plays, and possibly full-length plays. *Satisfies an activity requirement or a humanities/fine arts/English requirement for AA degree. Formerly DRAMA 153.*

DRMA 298 Independent Study - Drama (1-5)

Encourages students to study and develop independently their special interests in drama. Each student meets on a tutorial basis with his/her instructor. *PREREQUISITE: Instructor's permission. Formerly DRAMA 298.*

Early Childhood Education (ECE)

ECE 100 Basic STARS Training (2)

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.

ECE 101 Introduction to Early Childhood Education (5)

Provides an overview of the teaching profession spanning the ages of early childhood through grade 3. Includes an overview of current research on effective teaching strategies, learning styles, and developmentally appropriate practices, as well as an introduction to current issues related to education. Reviews the Essential Academic Learning Requirements (EALR's) for Washington along with the Washington state Skill Standard Requirements. Appropriate for those interested in teaching early childhood education or paraeducation in the elementary K-3 classrooms. Includes site visits to various ECE programs.

ECE 103 Early Childhood Education Practicum 1 (3)

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. *Satisfies an activity requirement for AA degree.*

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ECE 103.1 Child Development Associate Practicum 1 (3)

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.

ECE 104 Early Childhood Education Practicum 2 (3)

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: ECE 103 or instructor's permission. Satisfies an activity requirement for AA degree.*

ECE 104.1 Child Development Associate Practicum 2 (3)

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.*

ECE 120 Introduction to Child Development Associates (5)

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.

ECE 145 Foster Parent Scope (5)

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.

ECE 175 Music/Movement Activities (3)

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.*

ECE 181 Montessori Practicum I (4)

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.

ECE 182 Montessori Practicum 2 (4)

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: ECE 181 or instructor's permission.*

ECE 190 Child Develop Associate Course Content (5)

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.

ECE 194-196 Early Child Education Special Topics 1-3 (1-5)

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.

ECE 200 Child Development Associate Work Ethics (5)

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.

ECE 205 Learning Environments (3)

Studies facilities, equipment, materials and teacher behaviors that support safe and healthy learning environments for children. Assesses models of curriculum for developmental appropriateness.

ECE 211 Introduction to Montessori (4)

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.

ECE 212 Montessori 2 (4)

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: ECE 211 or instructor's permission.*

ECE 213 Montessori 3 (4)

Concludes the study of the Montessori philosophy and method focusing on the 3-6 year old child. Emphasizes cultural subjects developmentally appropriate practices. Students study environment, equipment, materials, and teacher behaviors that support the Montessori method of education. *PREREQUISITE: ECE 212 or instructor's permission.*

ECE 214 Early Childhood Education Practicum 3 (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 6. *PREREQUISITE: ECE 104. Satisfies an activity requirement for AA degree.*

ECE 215 Early Childhood Education Practicum 4 (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 6. *PREREQUISITE: ECE 214. Satisfies an activity requirement for AA degree.*

ECE 225 Early Identification/ Intervention, Birth To Five (3)

A study of the development of hearing, speech, language, vision, and motor skills in children ages birth through five in order to assess whether that development is within normal limits. Uses observations to identify developmental discrepancies. Preventative interventions are accomplished by working with parents in referrals to appropriate resources for diagnosis and remediation. These referrals allow earliest treatment in the prevention of further delays or future disabilities.

ECE 235 Child, Family and Community Relationships (3)

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.

ECE 250 ECE Final Practicum (1)

Intended as the final course in the ECE degree program, ECE 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. *PREREQUISITE: ECE 101, 103, 104, 175, 200, 205, 214, 215, 225, 235; and EDUC& 115, EDUC 110.1, 110.2, and 240; EDEC 130, 140, 150, 155, 160, 243, 245; and instructor's permission.*

ECE 260 CDA Performance Documentation (5)

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. *PREREQUISITE: ECE 120, 190, 200; or instructor's permission.*

ECE 265 Supervised Montessori Teaching (4)

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: ECE 211, 212, and 213; or instructor's permission.*

Economics (ECON)**ECON 100 Economic Principles and Applications (5)**

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. *Satisfies a social science requirement for AA degree.*

ECON 101 Economics of Competition (5)

Study of scarcity, competition, costs, prices, and profits with specific attention to resources, unions, business and government. *Satisfies a social science requirement for AA degree.*

ECON 194 Special Topics - Economics (1-5)

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.

ECON& 201 Micro Economics (5)

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. Formerly ECON 201.*

ECON& 202 Macro Economics (5)

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. Formerly ECON 200.*

ECON 298-299 Independent Study - Economics 1-2 (5)

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 In Early Childhood (EDEC)**EDEC 102 Computers in Education (3)**

Students use computers in a manner related to the education field. Appropriate for experienced, as well as inexperienced computer users. Includes exposure to software for children.

EDEC 115 Issues and Trends (3)

Examines and interprets the emergent issues and trends impacting the field of education along with current research and views of society. Addresses historical and social foundations of teaching young children including issues relating to cultural diversity.

EDEC 130 Guidance and Discipline (3)

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.

EDEC 140 Health, Safety and Nutrition (3)

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.

EDEC 150 Multicultural Language Arts P-3 (3)

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.

EDEC 155 Exploring Science and Math P-3 (5)

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.

EDEC 160 Art for Children (3)

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.

EDEC 190 The Role of the Paraeducator (2)

Based on the Washington state paraeducator standards, this course introduces students to the training needed to work as effective members of an instructional team in the P-12 system. Provides an understanding of direct services to children and youth, including youth with disabilities. Introduces the student to the roles, responsibilities, and techniques of certificated/licensed staff and paraeducators. Covers student records and the laws, drawing on the expertise of local professionals and schools.

EDEC 194-196 Special Topics (1-5)

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, or childcare agency.

EDEC 200 Curriculum Development in Literacy (2)

For individuals who intend to be instructional aides or paraeducators in the P-12 system. Acquaints students with the abilities needed to provide appropriate materials for the promotion of literacy skills in the classroom. Provides exposure to a wide variety of reading materials to meet multiple levels of ability. Addresses the special needs populations and students with limited English fluency skills and involves working with local professionals and schools.

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EDEC 220 Introduction to Sign Language 1 (2)

Introduces sign language. Presents alphabet and vocabulary using Signed English. Fingerspelling activities include a variety of games and songs. *Satisfies an activity requirement for AA degree.*

EDEC 221 Sign Language 2 (2)

Continues activities presented in EDEC 220. *PREREQUISITE: EDEC 220 or instructor's permission. Satisfies an activity requirement for AA degree.*

EDEC 243 Creative Teaching of the Young Child (5)

Covers development of creative, developmentally appropriate materials, curricula and teaching strategies for educational settings. Presents culturally sensitive, multicultural, and anti-bias approaches throughout the course.

EDEC 245 Challenging Behaviors in Young Children (2)

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.

EDEC 293 Issues of Child Abuse (2)

Presents an overview of child abuse and neglect in the United States. 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.

EDEC 294-296 Special Topics 1-3 (1-5)

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.

Education (EDUC)

EDUC 110.1 The Developing Child: Birth to Three (3)

Presents a study of developmental ages and stages of children birth to 3. Through field trips, case studies, small group discussions, observations of children, and project-based activities, students learn about the emerging abilities of the young child and the importance of culturally responsive partnerships with families. Students explore how to create safe, nurturing, predictable and culturally responsive

environments to support social, emotional, physical and intellectual development in the earliest years. *Formerly EDEC 110.1.*

EDUC 110.2 Preschool and School-Age Development (2)

Presents a study of developmental ages and stages of preschool and school age children. Through field trips, case studies, small group work, observations, and project-based activities, students learn about the emerging abilities of the preschool and school-age child. Course includes the influence of culture and environment on development. *PREREQUISITE: EDUC 110.1 or instructor permission. Formerly EDEC 110.2.*

EDUC 111 Middle Childhood and Adolescence (5)

Presents a study of the developmental characteristics of the child from middle school through adolescence. Covers physical, perceptual, cognitive/language, and social/emotional development. Includes discussion of developmental theories and research methods used in the field of human development. *PREREQUISITE: EDUC& 115 or both EDEC 110.1 and 110.2. Formerly EDU 111.*

EDUC& 115 Child Development (5)

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. *Satisfies a social science requirement for AA degree. Formerly EDEC 110.*

EDUC 193 Introduction to Special Education (3)

Explores the history, psychology, and medical aspects of special education, as practiced in the United States, in addition to opportunities available in the profession. Recommended for future educators and others interested in understanding children with special needs. *Formerly EDU 193.*

EDUC 194-196 Education Special Topics 1-3 (1-5)

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. *Formerly EDU 194-196.*

EDUC& 204 Exceptional Child (5)

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. *Formerly EDEC 193.*

EDUC& 205 Introduction to Education with Field Exposure (5)

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. *Formerly EDU 170.*

EDUC 210 Assisting Practicum (6)

Students work with children in the elementary classroom, learning and demonstrating the fundamentals of developmentally-appropriate and culturally-sensitive practices. In addition, students participate in a two-hour seminar each week, linking the practicum experience to theory. *Satisfies an activity requirement for AA degree. Formerly EDU 210.*

EDUC 240 Multicultural/Anti-Bias Issues in Education (3-5)

Examines attitudes and practices that are explicitly 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. *Formerly EDU 240.*

EDUC 270 Teacher Portfolio Review (1)

Provides an independent study follow-up course to EDUC& 205. Elementary and secondary education students continue to document their participation in activities related to teacher education and GRCCs campus-wide learning outcomes. These experiences are documented in an electronic portfolio. *PREREQUISITE: EDUC& 205 and 60 or more credits. This is a pass/no credit course. Formerly EDU 270.*

EDUC 294-296 Education Special Topics 4-6 (1-5)

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 EDU 294-296.*

English (ENGL)**ENGL 081 Fundamentals of Written Communication (5)**

A writing course that focuses on the skills designed to prepare students for English 100 or professional/technical degrees. Introduces students to the writing process so they can write well-organized and developed paragraphs and short essays. Students study grammar, basic sentence structure, mechanics, punctuation, and improve vocabulary and spelling. Students also read works that include various rhetorical structures and themes in order to improve critical reading and writing skills. *PREREQUISITE: COMPASS placement and eligible for READ 094.*

ENGL 090 Spelling Improvement (3)

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 Vocabulary Improvement (3-5)

Offers students the opportunity to improve their vocabularies. Lectures and discussions introduce basic techniques and guidelines for vocabulary development.

ENGL 092 Composition Skills: Mechanics and Paragraphs (1-2)

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 Bridge to College English (5)

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 100 Introductory Composition (5)

Intensive writing course designed to prepare students for ENGL& 101. Focuses on college-level composition skills (composition and revision processes) and college-level reading analysis. Presents a general review of the rules of English grammar and spelling. *PREREQUISITE: COMPASS placement (writing and reading scores) or ENGL 081 with a grade of 2.0 or higher, and eligible for READ 104. This is a pass/no credit course.*

ENGL& 101 English Composition I (5)

A composition course designed to teach critical reading and clear, purposeful, and effective writing. Writing tasks are related to course readings and prepare students for writing assignments in other college classes. *PREREQUISITE: COMPASS placement or ENGL 100, and college level reading skills or READ 104. Satisfies basic skills requirement for AA degree. Formerly ENGL 110.*

ENGL 105 Grammar and Usage (5)

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 Vocabulary Mastery (5)

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 Elements of Composition (1)

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 Medical Terminology (1-2)

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 Writing for Trades and Professional/Technical Degrees (5)

Teaches critical reading and clear, effective, practical college writing. Readings are keyed to professional/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. Formerly ENGL 102.*

ENGL& 112 Introduction to Short Fiction (5)

Increases understanding and appreciation of fiction through intensive reading and analysis of short stories. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 131.*

ENGL& 113 Introduction to Poetry (5)

Increases understanding and appreciation of poetry through a study of poetic techniques and through extensive readings in various poetic forms by selected poets. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 133.*

ENGL& 114 Introduction to Drama (5)

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. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 132.*

ENGL 115 Introduction to Novels (5)

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. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 135.*

ENGL 126 Writing: Humanities (5)

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 its major emphasis is on 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: ENGL& 101. Satisfies basic skills requirement for AA degree. Formerly ENGL 111.*

ENGL 127 Writing: Social Science (5)

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: ENGL& 101. Satisfies basic skills requirement for AA degree. Formerly ENGL 112.*

ENGL 128 Research Writing: Science/Engineering/Business (5)

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: ENGL& 101. Satisfies a basic skills requirement for AA degree. Formerly ENGL 113.*

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ENGL 160 Literature By and About Women (5)

Introduces writings by and about women. Studies cultural/historical concepts and paradigms that have impacted women's concepts of themselves, 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& 101. Satisfies a humanities/fine arts/English requirement for AA degree.*

ENGL 163 The Poetics of Rap and Hip Hop (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree.*

ENGL 165 Introduction to the Myths of the World (5)

Introduces common myths of the world. Myths are approached thematically: creation, rites of passage, hero. Includes study of the relationship of primitive and non-primitive mythology and the importance of myth in the contemporary world. *PREREQUISITE: Eligible for ENGL& 101. Satisfies a humanities/fine arts/English requirement for AA degree.*

ENGL 168 Introduction to Irish Literature (5)

Deals with the main themes in Irish literature from its ancient beginnings in bardic and epic poetry to its current themes rooted in politics, gender, and cultural identity. Students read a survey of Irish literature in various forms from poetry to drama to short story to novel. Course places literature in its literary, historical, and cultural background with some emphasis on the implications of the Celtic Revival prevalent in the modern world. *Satisfies a humanities/fine arts/English requirement for AA degree.*

ENGL 180 Children's Literature (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree.*

ENGL 181 Literary Approaches to Popular Culture (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree.*

ENGL 183 Literary Approaches to Mystery/Detective Fiction (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree.*

ENGL 185 Literary Approaches to the Bible (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree.*

ENGL 187 Paradise and Hell as Literary Concepts (5)

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, Northrop 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& 101. Satisfies a humanities/fine arts/English requirement for AA degree.*

ENGL 190 Adolescent Literature (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree.*

ENGL 194 Special Studies - English (1-5)

Course content varies each time it is offered. May include such studies as literature of the American West, African-American literature, contemporary novels or poets or other topics related to literature or media where need and interest are expressed.

ENGL 199 Independent Study (1-5)

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 Introduction to Shakespeare (5)

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. Formerly ENGL 240.*

ENGL& 226 British Literature I: 7th to 16th Century (5)

An historical and critical survey of selected works of English literature from the 7th 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& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 244.*

ENGL& 227 British Literature II: 17th to 18th Century (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 245.*

ENGL& 228 British Literature III: 19th to 21st Century (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 246.*

ENGL& 236 Creating Writing I (5)

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. Formerly ENGL 151.*

ENGL& 237 Creative Writing II (5)

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. Formerly ENGL 152.*

ENGL 239 Espial Workshop (3)

Course leads students through the process of creating a student-centered literary and art journal for Green River Community College. Students are assigned to specific tasks and charged with all elements of the production of a journal of student fiction, poetry, and artwork/photography. *PREREQUISITE: ENGL& 236 or concurrent enrollment; or instructor's permission. Formerly ENGL 154.*

ENGL & 244 American Literature I: American Literature to 1860 (5)

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. Course also studies cultural/historical/literary concepts that characterize these movements. *PREREQUISITE: Eligible for ENGL& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 221.*

ENGL & 245 American Literature II: Civil War to WWI (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 222.*

ENGL & 246 American Literature III: WWI to Present (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 223.*

ENGL 247 American Ethnic Literature (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 224.*

ENGL 248 African-American Literature (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 225.*

ENGL& 254 World Literature I: Ancient World (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 265.*

ENGL& 255 World Literature II: 7th to 18th Century (5)

An historical and critical survey of selected works of world literature of the 7th through the 18th centuries from a diversity of cultures. *PREREQUISITE: Eligible for ENGL& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 266.*

ENGL& 256 World Literature III: 19th to 21st Century (5)

An historical and critical survey of selected works of world literature of the 19th through the 21st centuries from a diversity of cultures. *PREREQUISITE: Eligible for ENGL& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 267.*

ENGL 257 Non-Western World Literature (5)

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& 101. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly ENGL 268.*

ENGL 299 Independent Study - English (1-5)

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.*

Engineering (ENGR)

ENGR 100 Careers in Engineering (2)

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. *Formerly G E 100.*

ENGR& 104 Introduction to Design (5)

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. Formerly G E 104.*

ENGR 106 Introduction to Engineering Problems (3)

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 or quantitative skills requirement for AA degree. Formerly G E 106.*

ENGR& 114 Engineering Graphics (5)

A beginning 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 three-dimensional objects, as well as design and problem solving skills. Recommended for all beginning engineering students. *Formerly G E 123.*

ENGR 120 Engineering Computational Tools (2)

Introduces MATLAB as a tool for mathematical analysis, visualization, simulation, and modeling. Class is an important tool for the engineering mechanics sequence (ENGR& 214, 215, and 225) where MATLAB is used in a variety of open-ended engineering design and analysis problems. Focuses specifically on the MATLAB features that are most useful in engineering coursework. *PREREQUISITE: MATH& 142 or concurrent enrollment; or instructor's permission.*

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ENGR 140 Materials Engineering (5)

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. Formerly G E 140.*

ENGR 177-179 Engineering Work Experience 1-3 (1-12)

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. Formerly G E 177-179.*

ENGR 198 Independent Study - Computer Programming (1-5)

Encourages students to study independently and develop their special interest in computer programming. **PREREQUISITE:** *Instructor's permission. Formerly G E 198.*

ENGR 199 Independent Study - Design Projects (1-5)

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. Formerly G E 199.*

ENGR& 204 Electrical Circuits (5)

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 PHYS 202. Satisfies a quantitative skills requirement for AA degree. Formerly G E 235.*

ENGR& 214 Statics (5)

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 or quantitative skills requirement for AA degree. Formerly G E 112.*

ENGR& 215 Dynamics (5)

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 201.*

Satisfies a natural science or quantitative skills requirement for AA degree. Formerly G E 281.

ENGR& 224 Thermodynamics (5)

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 201. Satisfies a natural science requirement for AA degree. Formerly G E 280.*

ENGR& 225 Mechanics of Materials (5)

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. Formerly G E 240.*

ENGR 250 Numerical Methods Using MATLAB (5)

Introduces the use of computers to solve engineering problems. MATLAB is the program used for numerical methods. Course does not present more theoretical aspects, i.e., proofs, deviations and so on. Solves some applications of engineering courses, e.g., the engineering mechanics sequence (ENGR& 214, 215 and 225), thermodynamics (ENGR& 224), and fundamentals of electrical engineering (ENGR& 204), with important and fundamental numerical methods. **PREREQUISITE:** *MATH& 254 and one of the following: ENGR 120 or CS& 131 or CS& 141.*

Environmental Science (ENV S)

ENV S 194 Special Topics - Environmental Science (1-5)

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.

ENV S 204 Natural Science and the Environment (5)

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 discussions and readings. May be repeated when a different topic is presented. 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. Satisfies a natural science requirement for AA degree.*

English Speakers Of Other Languages (ESOL)

ESOL 011 English for Speakers of Other Languages Level 1 (1-15)

Low-beginning level of ESOL for students who are permanent resident of Washington state. These students are generally literate in their first language, but have no English or limited English. They may have some verbal skills, but little or no reading or writing skills. Students study the alphabet, phonics, the calendar, numbers, family vocabulary and communicating basic personal information both orally and in writing. Students learn organizational skills and learn to function in a classroom setting. **PREREQUISITE:** *ESOL 010, placement test, and instructor's permission. This is a pass/no credit course.*

ESOL 012 English for Speakers of Other Languages Level 2 (1-15)

Beginning-level of ESOL for students who are permanent resident of Washington state. Students study time, money, family, be verb, and other common present tense verbs. Students begin to understand and use more authentic speech in describing their daily activities. Students read short simplified paragraphs on everyday subjects and write simple sentences on familiar topics. Students learn organizational skills and learn to function in a classroom setting. **PREREQUISITE:** *ESOL 011, placement test, and instructor's permission. This is a pass/no credit course.*

ESOL 013 English for Speakers of Other Languages Level 3 (1-15)

High-beginning level of ESOL for students who are permanent resident 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 Level 2, placement test and instructor's permission. This is a pass/no credit course.*

ESOL 014 English for Speakers of Other Languages Level 4 (1-15)

Low-intermediate level ESOL course 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 Level 3, placement test, and instructor's permission. This is a pass/no credit course.*

ESOL 015 English for Speakers of Other Languages Level 5 (1-15)

Intermediate-level ESOL course 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 English for Speakers of Other Languages Level 6 (1-15)

Advanced-level ESOL course 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 use vocabulary and grammar to speak and write effectively for complex purposes such as applying for a loan or a job. Students develop advanced English learning skills and strategies needed to, for example, be a spokesperson for themselves or children in a school. *PREREQUISITE: ESOL Level 5, placement test and instructor's permission. This is a pass/no credit course.*

ESOL 017 Community-Based ESOL Level 1 (1-10)

Low-beginning level community-based English course 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.

ESOL 018 Community-Based ESOL Level 2 (1-10)

Beginning-level community-based English course 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: ESOL 017, or placement test and instructor's permission.*

ESOL 019 Community-Based ESOL Level 3 (1-10)

High-beginning level community-based English course 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: ESOL 018, or placement test and instructor's permission.*

ESOL 031-033 ESOL Conversation 1-3 (1-5)

Provides 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 034 ESOL Citizenship Preparation Level 4 (1-4)

For current students in ESOL 014, 015 or 016 who want to improve their writing skills, and especially for students who have stronger speaking/listening skills rather than reading/writing skills for their level. *PREREQUISITE: Concurrent enrollment in ESOL 014 plus teacher recommendation. This is a pass/no credit course.*

ESOL 035 ESOL Citizenship Preparation Level 5 (1-4)

For current students in ESOL 014, 015 or 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: Concurrent enrollment in ESOL 015 plus teacher recommendation. This is a pass/no credit course.*

ESOL 036 ESOL Citizenship Preparation Level 6 (1-4)

For current students in ESOL 014, 015 or 016 who want to improve their writing skills, and

especially for students who have stronger speaking/listening skills rather than reading/writing skills for their level. *PREREQUISITE: Concurrent enrollment in ESOL 016 plus teacher recommendation. This is a pass/no credit course.*

ESOL 040 Preparation for Citizenship Level 2 (1-5)

Assists participants in preparing for the U.S. naturalization examination and interview. Focuses on correctly completing application, studying materials necessary to pass the interview and examination, and practicing examination/interview skills. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

ESOL 046 English Grammar for Level 2 (1-5)

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 054-056 Technology Assisted Language Learning - Level 4-6 (1-5)

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 they discover new ways to improve their language learning skills. Students also acquire basic computing skills needed for today's workforce. 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 064-066 ESOL Writing Support - Level 4-6 (1-4)

For current students in ESOL 014, 015, or 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 092-093 Special Topics 2-3 (1-15)

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 2. *PREREQUISITE: Appropriate assessment score and instructor's permission. This is a pass/no credit course.*

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ESOL 094-096 Special Topics 4-6 (1-15)

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 professional/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.*

Forensic Technology

See Criminal Justice (CJ).

Forest Resources (FORES)

FORES 114 Chainsaw Operation and Maintenance (1)

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.*

French (FRCH)

FRCH& 121 French I (5)

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. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly FREN 101.*

FRCH& 122 French II (5)

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. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly FREN 102.*

FRCH& 123 French III (5)

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. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly FREN 103.*

FRCH& 221 French IV (5)

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. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly FREN 201.*

Geography (GEOG)

GEOG 100 Introduction to Geography (5)

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. *Satisfies a social science requirement for AA degree.*

GEOG 108 Introduction to Human Geography (5)

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. **RECOMMEND:** *Eligible for ENGL& 101. Satisfies a social science requirement for AA degree.*

GEOG 120 Introduction to Physical Geography (5)

Analyzes the physical structure of the earth's surface, including landforms, weather, climate, and biogeography. Emphasizes understanding what makes each point on earth unique and how humans interact with physical systems in multiple ways. **RECOMMEND:** *Eligible for ENGL& 101. Satisfies a social science requirement for AA degree.*

GEOG 123 Globalization (5)

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 Geographic Explorations (5-10)

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. *Satisfies a social science requirement for AA degree.*

GEOG 200 World Regional Geography (5)

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 Environmental Geography (5)

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 Independent Study - Geography (1-5)

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 Introduction to Physical Geology (5)

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. *Satisfies a lab or natural science requirement for AA degree. Formerly GEOL 101.*

GEOL 150 Field Trips in Geology (1)

Investigates the geology of the Pacific Northwest. Locations of field trips vary from quarter to quarter. Some of the trips involve hiking up to 3 or 4 miles on variable terrain. **PREREQUISITE:** *Concurrent enrollment in GEOL, or GEOL& 101, or instructor's permission. Satisfies an activity requirement for AA degree. This is a pass/no credit course. Formerly GEOL 102.*

GEOL 151 Dinosaurs: Museum Field Trips in Geology (1)

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. *This is a pass/no credit course.*

GEOL 152 Field Trips in Geology (1)

Investigates the geology of the Pacific Northwest. Locations of field trips vary from quarter to quarter. Some of the trips involve hiking up to 3 or 4 miles on variable terrain. **PREREQUISITE:** *Concurrent enrollment in GEOL, or GEOL& 101, or instructor's permission. Satisfies an activity requirement for AA degree. This is a pass/no credit course. Formerly GEOL 103.*

GEOL 153 Field Trips in Geology (1)
 Investigates the geology of the Pacific Northwest. Locations of field trips vary from quarter to quarter. Some of the trips involve hiking up to 3 or 4 miles on variable terrain. *PREREQUISITE: Concurrent enrollment in GEOL, or GEOL& 101, or instructor's permission. Satisfies an activity requirement for AA degree. This is a pass/no credit course. Formerly GEOL 104.*

GEOL 200 Geological Investigations of the National Parks (5)
 An investigation of the geology of national parks of the United States and Canada. The primary emphasis is on the geology of the western park. *PREREQUISITE: GEOL& 101. Satisfies a natural science requirement for AA degree.*

GEOL 206 Earth History (5)
 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. Satisfies a lab or natural science requirement for AA degree.*

GEOL& 208 Geology of the Pacific Northwest (5)
 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. Satisfies a lab or natural science requirement for AA degree. Formerly GEOL 208.*

GEOL 299 Independent Study - Geology (1-5)
 Allows and encourages students to study independently in their special interest in geology. Course contents, type and scope of project is decided in conference between student and instructor. *PREREQUISITE: GEOL& 101 and/or instructor's permission.*

German (GERM)

GERM& 121 German I (5)
 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 "C" average or less. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly GERM 101.*

GERM& 122 German II (5)
 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 "B" or higher or instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly GERM 102.*

GERM& 123 German III (5)
 Continues the systematic study of advanced 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. Formerly GERM 103.*

GERM 194 Special Studies - German (1-5)
 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.

Geographic Information System (GIS)

GIS 102 Exploring GIS Spatial Technology (3)
 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 Arc Explorer, ArcCatalog and Arcmap; and to see practical applications such as analysis of the causes of natural disasters e.g. wildfire, tsunami, Hurricane Katrina, and homeland security. 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 GRCC and four-year institutions.

GIS 121 Introduction to GIS (5)
 Provides an overview of ArcGIS tools and three principle 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, 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: BUS E 100, D T 100, GIS 102, NATRS 172; or instructor's permission.*

GIS 141 Spatial Statistics (3)
 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 relationship. 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 GIS Work Experience 1-3 (1-12)
 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 194 Special Topics - GIS (1-5)
 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 GIS Fundamentals and Theory (5)
 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 GIS Modules Analyst (5)
 Covers several ArcGIS modules within ArcGIS software programs which add analytical and display capabilities to ArcGIS. Students learn to use Network Analyst, 3-D Analyst, Spatial Analyst using Model builder, and ArcScan. Students also learn to publish data using ArcReader and Publisher modules. *PREREQUISITE: GIS 121 or 202; or instructor's permission.*

GIS 250 Data and Spatial Database Design (5)

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 Introduction to GIS Programming (5)

Introduces three GIS programming approaches: ArcInfo command line GIS programming language Arc Macro Language (AML); ArcObject; and Python language. Students learn to apply principles of object oriented programming to GIS application. Focuses on course content of interest to students who are interested in software development. Students learn to write script to add functions to ArcGIS along with tools/buttons to call these functions and learn to write and debug scripts for ArcGIS. *PREREQUISITE: GIS 121 or instructor's permission.*

GIS 260 Cartography-Based GIS (5)

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 270 GIS in the Field 1 (5)

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 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 291 GIS Project Planning (2)

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 GIS Project (5)

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 GRCC 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 internship in government, private sector, or non-profit organizations. *PREREQUISITE: GIS 220 or 291; or instructor's permission.*

GIS 299 Independent Study - GIS (1-5)

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.*

Health and Human Services (H HSC)**H HSC 110 Fundamentals of Caregiving: Introduction to Health Occupation (12)**

Teaches the essential skills to become an entry level health care and human services provider including basic workplace skills and ethics, responsibilities of a care provider, communication skills, patient rights and confidentiality. Covers general patient and work place safety rules, documentation using correct terminology, nutritional concerns, an understanding of select diagnoses, patient/client safety, infection control and measuring vital signs. Also teaches the basics of body mechanics, transfers, ambulation, 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. Seminar portion teaches students the essentials of resume writing and job interviewing. At the successful completion of this course, students earn CPR and Basic First Aid, HIV/Aids and Fundamentals of

Caregiving certificates, and are eligible to register with the state of Washington for the (NAR) Nursing Assistant Registered status. *This is a pass/no credit course.*

Health Science (H SCI)**H SCI 101 Neuroscience (3)**

Introduces neuroscience as it relates to the practice of physical therapy. *PREREQUISITE: HSCI 102.*

H SCI 102 Applied Anatomy (5)

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 Fundamentals of Gerontology (4)

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 150 Human Life Span Growth and Development (5)

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.*

History (HIST)**HIST 024 Pacific Northwest and Washington State History (5)**

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 The Ancient World (5)

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. *Satisfies a social science requirement for AA degree.*

HIST 102 Early Modern World (5)

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. *Satisfies a social science requirement for AA degree.*

HIST 103 The Modern World (5)

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. *Satisfies a social science requirement for AA degree.*

HIST 120 History of the Movies (5)

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 movies emergence as a pervasive world culture at the beginning of the 21st century. *Satisfies a social science requirement for AA degree.*

HIST 122 History of Australian Movies (5)

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. *Satisfies a social science requirement for AA degree.*

HIST 135 The United States Since 1940 (5)

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. Examines scientific and technological changes marking this period. *Satisfies a social science requirement for AA degree.*

HIST& 136 U.S. History 1 (5)

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. *Satisfies a social science requirement for AA degree. Formerly HIST 221.*

HIST& 137 U.S. History 2 (5)

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. *Satisfies a social science requirement for AA degree. Formerly HIST 222.*

HIST 194 Special Studies - History (1-5)

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.

HIST& 214 Pacific Northwest History (5)

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. *PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree. Formerly HIST 200.*

HIST& 215 Women in U.S. History (5)

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 requirement for AA degree. Formerly HIST 225.*

HIST 220 History of American Civilization (5)

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.*

HIST 224 African-American History (5)

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 requirement for AA degree.*

HIST 226 Asian-American History (5)

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 requirement for AA degree.*

HIST 228 Latinos in the United States (5)

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 requirement for AA degree.*

HIST 230 20th Century Europe (5)

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 Modern Asia (5)

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 Renaissance and Reformation (5)

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 History of Latin America (5)

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 requirement for AA degree.*

HIST 235 History of Great Britain (5)

Examines the history of Britain from the islands 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 History of Australia and New Zealand (5)

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 The Civil War (5)

Studies the events and conditions leading to the Civil War, the conflict itself, and the wars 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 The Second World War (5)

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 The Vietnam War (5)

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 297-299 Independent Study - History 1-3 (1-5)

Permits a student to pursue a special field of interest under the guidance of an instructor. *PREREQUISITE: 5 credits of history at the 100 or 200 level plus Instructor's permission.*

Health Education (HL ED)**HL ED 150 Total Wellness (5)**

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 Applied Wellness (3)

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 Wellness Approach to Final Stages of Life (3)

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 Food and Health (2)

Explores diet and its relationship to the health and vitality of the individual. Provides practical information necessary for evaluating the relationship between diet and disease, caloric need with respect to fat, protein and carbohydrate, recommended daily allowance

(RDA) for vitamins and minerals, diet and weight control, vegetarianism, eating disorders, and food labels. *PREREQUISITE: Eligible for MATH 070 and READ 094.*

HL ED 190 Standard First Aid/CPR (3)

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 Independent Study - Health (3)

For any student wishing to develop a basic knowledge in health when there is no offering in the regular curriculum. *PREREQUISITE: Instructor's permission.*

High School Completion (HSC)**HSC 021 U.S. History 1 (3)**

Covers U.S. history from the pre-colonial period up through the Civil War and reconstruction. Students examine U.S. history from several perspectives. The nation's development, major wars, constitutional developments and territorial expansion is the major framework. Includes social histories, such as histories of women, American Indians, African Americans, Latinos, immigrants, and some labor history. *PREREQUISITE: Concurrent enrollment in READ 084; or eligible for ENGL 081 and READ 094.*

HSC 022 U.S. History 2 (3)

Covers U.S. history from the Civil War to modern times. Students examine U.S. history from several perspectives. The development of our nation, major wars, and economic and policy developments is the major framework. Includes social histories such as histories of women, American Indian, African American, Latinos, immigration, and some labor history. *PREREQUISITE: Concurrent enrollment in READ 084; or eligible for ENGL 081 and READ 094.*

HSC 025 Civics and Government (3)

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 031 Current World Issues 1 (3)

Introduces international issues of globalization, poverty and economic development, debt, sustainability and population. Emphasizes the interconnectedness of global issues. *PREREQUISITE: Concurrent enrollment in READ 084; or eligible for ENGL 081 and READ 094.*

HSC 032 Current World Issues 2 (3)

Introduces international issues of human rights, self-determination, health and the environment. Emphasizes the interconnectedness of global issues. *PREREQUISITE: Concurrent enrollment in READ 084; or eligible for ENGL 081 and READ 094.*

HSC 040 Culminating Experience (3-5)

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.*

Humanities (HUMAN)**HUMAN 100 Creative and Critical Thinking (5)**

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 Background for the Humanities (5)

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

HUMAN 133 People, Language and Culture (5)

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

HUMAN 142 Introduction to Japanese Life and Culture (5)

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. College level reading recommended. *Satisfies a humanities/fine arts/English requirement for AA degree.*

HUMAN 160 Introduction to the Study of Gender (5)

Students examine the ways gender operates in a variety of different situations including literary, cultural, and philosophical texts and experiences. Provides students with some of the available critical tools needed to understand contemporary gender theory as it relates to questions surrounding gender issues in personal and professional relationships, power, communication, language, the media, etc. *RECOMMEND: Eligible for ENGL & 101. Satisfies a humanities/fine arts/English requirement for AA degree.*

HUMAN 186 Peoples of the World (5)

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 Latin American Culture Through Literature (5)

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 requirement for AA degree.*

HUMAN 191 Latin America in Film (5)

Explores the relationship between film and cultural interpretation and understanding of Latin America. Considers the history of cinema in Latin America. Focuses on how film has been used to interpret Latin American culture and how we can use 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 100. Satisfies a humanities/fine arts/English requirement for AA degree.*

HUMAN 194 Special Studies - Humanities (5)

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 Women and World Religions (5)

Explores feminine perspectives of religion and spirituality in classical and indigenous religions today and throughout history. Examines images of the divine, mythological presentations, as well as roles and practices of women in each tradition through the study of traditional writings, feminist themes and feminist theologies. Addresses questions such as: What do sacred sources in traditional religions say about women and issues of gender; and how both men and women in society used oral and written sacred narratives. *Satisfies a humanities/fine arts/English requirement for AA degree.*

HUMAN 272 Introduction to Film: Genres (5)

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. *RECOMMEND: College level reading and writing. Satisfies a humanities/fine arts/English requirement for AA degree.*

Industrial Engineering (I E)**I E 114 CATIA - 2-D (4)**

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

I E 114.1 CATIA - 2-D (2)

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

I E 114.2 CATIA - 2-D (2)

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 solid creation. Gains a working knowledge of how to move

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geometry within a model, change the graphical characteristics of existing geometry, and analyze and establish model standards. *PREREQUISITE: I E 114.1.*

I E 189 Basic Metallurgy (4)

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 Statics and Strengths (5)

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 CATIA Modeling (7)

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 CATIA - 3-D Solids (5)

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 or 114.2.*

I E 214.1 CATIA - 3-D Solids 1 (3)

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: Instructor's permission.*

I E 214.2 CATIA - 3-D Solids 2 (2)

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 214.1.*

I E 215 CATIA - 3-D Surfacing (4)

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 or 214.2.*

I E 215.1 CATIA - 3-D Surfacing (2)

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 that are accurate and accomplished in a timely manner. *PREREQUISITE: I E 214 or 214.2.*

I E 215.2 CATIA - 3-D Surfacing (2)

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 that are accurate and accomplished in a timely manner. *PREREQUISITE: I E 215.1.*

Interdisciplinary Science (IDS)

IDS 101 Interdisciplinary Science I (5)

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. No previous college science or instructor's permission. Satisfies a lab or natural science requirement for AA degree.*

IDS 102 Interdisciplinary Science 2 (5)

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. Satisfies a lab or natural science requirement for AA degree.*

IDS 103 Interdisciplinary Science 3 (5)

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. Satisfies a lab or natural science requirement for AA degree.*

Industrial Education (INDUS)

INDUS 101 Basic Wood Shop (4)

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 Welding Survey 1-3 (3)

Includes lecture and lab experiences in arc welding, oxyacetylene 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 Manufacturing Processes (4)

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.*

Information Technology (IT)

IT 101 Introduction to Computer Science (5)

Provides an overview of computer science. Introduces computer hardware, software, procedures and systems, and their applications in various segments of society. Introduces information on careers in software development, networking, security and project management. Also introduces basic MS Office skills. A core prerequisite class for most of the IT courses and tracks usually taken at the beginning of all IT tracks. *PREREQUISITE: Eligible for READ 094 or instructor's permission.*

IT 102 Programming I for Information Professionals (5)

Introduces programming. Covers procedural programming (methods, parameters, return values), basic control structures (sequence, if/then/else, for loop, while loop), file processing, arrays, and introduces defining objects. *PREREQUISITE: IT 101; and MATH 097 or eligible for MATH& 141.*

IT 110 PC Support Technician 1 (5)

A technical introduction to Windows and DOS for support technicians. Covers the role of the operating system from a systems perspective, user interface issues, data management, batch files, and other technical issues associated with modern operating systems. *PREREQUISITE: Eligible for READ 094 or instructor's permission.*

IT 115 PC Support Technician 2 (5)

A technical introduction to basic computer systems hardware. Provides a review of current computer hardware used in the microcomputer environment. Also deals with the configuration of hardware components of a system and interfacing hardware with related software. *PREREQUISITE: Eligible for READ 094 or instructor's permission.*

IT 116 PC Support Tech 3 (Windows Applications) (5)

A technical introduction to Windows desktop applications for support technicians. Covers the role of the applications from a systems support perspective, user support issues, application installation, application configuration, and other technical issues associated with modern desktop applications. *PREREQUISITE: Eligible for READ 094.*

IT 121 Introduction to HTML (5)

Students learn the most important topics of Hypertext Markup Language (HTML), from the basics of creating Web pages with graphics and links using tables, and controlling page layout with frames, to more advanced topics, including cascading style sheets, programming with JavaScript and JavaScript objects and events, and creating a multimedia Web page with forms. *PREREQUISITE: IT 101.*

IT 130 Introduction to Networking (5)

Provides individuals who are new to networking with the knowledge of networking. Topics include TCP/IP and OSI models; Ethernet fundamentals, IP addressing and subnetting; switching fundamentals; Cisco router and switch operation; and principles of routing. *PREREQUISITE: IT 110 and 115; or instructor's permission.*

IT 132 Structured Cabling (2)

Provides individuals who are new to networking with the foundational knowledge of structured cabling. Topics include cabling concepts, detailed cable characteristics of common cabling types, cabling standards, and hands-on experience with cable termination.

PREREQUISITE: IT 101, 110, 115 or 130; or instructor's permission.

IT 135 Introduction to Network Security (5)

Provides students with a broad foundation of network security knowledge. Topics include security fundamentals, overview of cryptography, security policies and procedures, common types of attacks, and how to implement network security measures. *PREREQUISITE: IT 110 or instructor's permission.*

IT 140 Customer Service for IT Professionals (5)

Focuses on the knowledge and skills required to be part of a successful help-desk team. Topics include communications 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. *PREREQUISITE: Eligible for READ 094 or instructor's permission.*

IT 145 Introduction to Microsoft Project (5)

Introduces use of Microsoft Project to manage information technology and other projects from inception to completion. Covers the concepts of project management and applies them to a major IT project. *PREREQUISITE: Eligible for READ 094 or instructor's permission.*

IT 150 MS Windows (Current Version) Professional Implementation (5)

Provides students with the knowledge and skills necessary to install and configure Microsoft Windows Professional on stand-alone and client computers that are part of a workgroup or domain. *PREREQUISITE: IT 110 or instructor's permission.*

IT 160 Microsoft Windows (Current Version) Server Implementation (5)

Provides students with the knowledge and skills necessary to install and configure Microsoft Windows (current version) Server to create file, print, Web, and Terminal servers. *PREREQUISITE: IT 110 and 130; or instructor's permission.*

IT 171 IT Work Experience Seminar (1)

Prepares students to do job searches, prepare resumes and cover letters, and to dress professionally for the work environment. Uses taped practice interview sessions to improve interviewing skills. Students learn proper e-mail techniques and meeting etiquette. *PREREQUISITE: Eligible for READ 094 or instructor's permission.*

IT 175 Student Assistant (1-5)

Students work in the computer lab. Includes assisting students with lab activities. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

IT 176 Web Development Work Experience (1-5)

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: IT 101; and IT 121 or concurrent enrollment. This is a pass/no credit course.*

IT 177 Network Administration Work Experience (1-5)

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: IT 130 and (IT 160 or 190) and IT 178 or instructor's permission. This is a pass/no credit course.*

IT 178 Help Desk Work Experience (1-8)

Allows students to work full or part-time in jobs directly related to their programs and interests. Students may receive a salary or volunteer. *PREREQUISITE: IT 115, 140 and 171; or instructor's permission. This is a pass/no credit course.*

IT 179 Network Security Work Experience (1-5)

Provides individuals who are seeking an IT information assurance technician certification and/or an AAS degree in Information Technology with critical exposure to network security strategies as they apply in real-world working environments. *PREREQUISITE: IT 115, 130, 140 and 171; or instructor's permission. This is a pass/no credit course.*

IT 180 Database Development Work Experience (1-5)

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: IT 201; and IT 235 or concurrent enrollment.*

IT 181 Network Management Work Experience (1-5)

Provides individuals who are seeking an IT network technician certification and/or an AAS degree in Information Technology with critical exposure to network management strategies as they apply in real-world working environments. *PREREQUISITE: IT 110, 135, 140 and 171; or instructor's permission. This is a pass/no credit course.*

IT 190 Linux Administration (5)

Provides hands-on experience in installing and configuring a Linux operating system. Presents principal Linux concepts including essential commands and the command line, file systems, kernel compilation, basic user security, and an introduction to Internet related services. *PREREQUISITE: IT 110 or instructor's permission.*

IT 194 Special Topics - Information Technology (5)

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 110 or instructor's permission.*

IT 201 Fundamental Database Design (5)

Helps students accomplish useful tasks in the real world through the use of a database management system (DBMS) such as Access 2000 and/or Oracle. Students learn the de-facto industry standard query language (SQL) in order to create and maintain the database and database objects, such as tables, forms, reports, queries, macros, modules, and Web pages. Students gain proficiency with the System Development Life Cycle techniques in order to develop the right business application. Students learn about the various modeling techniques such as Enhanced Entity Relationship Diagrams (EER) and the Unified Modeling Language (UML) to identify entities, stakeholders, and processes of the business. Students expand these skills through hands-on exercises demonstrating actual business scenarios. *RECOMMEND: BUS E 266 or instructor's permission.*

IT 203 Web Client Development (5)

Introduces Web client development to students who have a strong interest in this area. Covers Web page design using artwork, forms, frames, objects, scripting, and trends in Web page development. *PREREQUISITE: IT 121.*

IT 205 Database Theory (5)

A primary course in database systems. Students develop applications using commercial or open source database systems. Presents the fundamentals of database technology through understanding of database concepts, the relational model, Structured Query Language (SQL), Entity Relationship (ER) diagrams, logical and physical database design, and concepts of referential integrity and normalization. *PREREQUISITE: IT 190 or CS& 131 or 141.*

IT 210 Managing Cisco Routers and Switches (5)

Focuses on the knowledge and skills to implement and configure switching and routing using Cisco products. Topics include device configuration, virtual local area networks (VLANs), routing protocols, and wide area networking (WAN) technologies. *PREREQUISITE: IT 130 or instructor's permission.*

IT 211 Routing Theory and Implementation (5)

Students learn the skills required to configure a Cisco router using Command Line Interface (CLI) commands. Key topics include router components, startup sequence, password security, and configuring interfaces and routing protocols. *PREREQUISITE: IT 130 or concurrent enrollment; or instructor's permission.*

IT 212 Advanced Routing and Switching (5)

Students learn advanced routing and basic switching skills. Key topics include basic switching, Virtual Local Area Networks (VLANs), access control lists, Novel Netwares IPX/SPX, and Cisco's Interior Gateway Routing Protocol (IGRP). *PREREQUISITE: IT 211 or instructor's permission.*

IT 213 Implementing Wide Area Networking (5)

Presents concepts and configuration details for Wide Area Network (WAN) technologies and protocols. Key topics include WAN design, configuring Point-to-Point Protocol (PPP), Integrated Service Digital Network (ISDN), and frame relay services. *PREREQUISITE: IT 211 or instructor's permission.*

IT 215 Information Assurance (5)

Focuses on the principles of information assurance (security), including the technical and managerial aspects. Topics include planning security policy, risk management, and coverage of various security technologies such as firewalls, virtual private networks, intrusion detection systems, and cryptography. *PREREQUISITE: IT 130 and 135; or instructor's permission.*

IT 216 Implementing Firewalls (5)

A technical introduction to implementing firewalls for IT professionals. Covers the role of the firewalls in a corporate network environment. Detailed coverage of planning, implementing, and maintaining static, dynamic, and application layer firewalls. *PREREQUISITE: IT 130, 135 and 160; or instructor's permission.*

IT 220 Programming II for Information Professionals (5)

Examines programming using traditional and visual development environments to learn event-driven object-oriented design. *PREREQUISITE: IT 102.*

IT 223 Active Web Site (5)

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 121 and 203.*

IT 225 Shell Scripting for Windows (5)

Introduces shell scripting for the Windows operating system and Windows Script Host through the use of the VB scripting language. Students learn to write, test, and execute basic administrative scripts for the Windows operating system. *PREREQUISITE: IT 160 or instructor's permission.*

IT 230 User Support (5)

Introduces the basics of delivering computer user support within an organization. Topics include identifying users and their needs, providing support with help desks and training, and supporting their technical needs with installations and troubleshooting. *PREREQUISITE: IT 115 and 140; or instructor's permission.*

IT 235 Database Management (5)

Introduces database management. Covers database principles, data modeling, normalization process, data manipulation (QBE and SQL), and issues related to data integrity. *PREREQUISITE: IT 201.*

IT 240 Manage MS Windows (Current Version) Network Environment (5)

Gives students the ability to administer, support, and troubleshoot information systems that incorporate Microsoft Windows (current version). *PREREQUISITE: IT 110 and 130; or instructor's permission.*

IT 243 Advanced Linux Administration - TCP/IP (5)

Covers advanced Linux administration topics, including Web services, DHCP, DNS, LDAP, SSH, routing, SMTP, NFS, and shell scripting. *PREREQUISITE: IT 190 or instructor's permission.*

IT 245 Implementing and Administering Directory Services (5)

Provides students with the knowledge and skills necessary to install, configure, and administer directory services. Focuses on performing tasks that are required to centrally manage users' computers and resources. *PREREQUISITE: IT 160 or instructor's permission.*

IT 246 Designing Directory Services Infrastructure (5)

Provides students with the knowledge and skills necessary to design a directory services infrastructure in an enterprise network. Presents strategies to assist the student in identifying the information technology needs of an organization, and then designing a directory services infrastructure that meets those needs. *PREREQUISITE: IT 160 and 245; or instructor's permission.*

IT 250 Implement and Manage MS Exchange (Current Version) (5)

Teaches students the knowledge and skills necessary to install, configure, and administer Microsoft Exchange (current version). *PREREQUISITE: IT 160 or instructor's permission.*

IT 252 System Administration for Microsoft SQL Server (5)

Provides students with the knowledge and skills required to install, configure, administer, and troubleshoot the current versions of Microsoft SQL Server, client/server, and database management system. *PREREQUISITE: IT 160 or instructor's permission.*

IT 255 Patch Management (5)

Focuses on deploying critical operating system updates such as software patches, service packs, and Quick Fix Engineering (QFE) fixes using Systems Management Server (SMS), and Microsoft Windows Update Services (WUS). *PREREQUISITE: IT 245 or instructor's permission.*

IT 263 XML Fundamentals (5)

Covers XML and related technologies. Presents the fundamentals of eXtensible Markup Language (XML) including supporting languages XSL/T, XSD, and WSDL. Introduces additional concepts including XPath, XQuery, Web services, SOAP, and Parsers. *PREREQUISITE: IT 205 or CS& 131 or 141; or concurrent enrollment.*

IT 265 Structured Query Language (SQL) (5)

Provides the hands-on experience in creating a database using the Structured Query Language (SQL), which is the standard de-facto database language used in mid and large-sized corporations. Students demonstrate the ability to derive physical database design, develop logical data models, manage and maintain databases, provide database security, and use integrity constraints to control data entry. Students learn important concepts and terminology associated with relational databases. *PREREQUISITE: IT 201; and IT 235 or concurrent enrollment.*

IT 271 Building Scalable Internetworks (5)

Students learn how to install, configure, monitor, and troubleshoot network infrastructure equipment. Topics include configuration of EIGRP, OSPF, IS-IS, and BGP routing protocols, and manipulation and optimization of routing updates between these protocols. Other topics include multicast routing, IPv6, and DHCP configuration. *PREREQUISITE: IT 212 or instructor's permission.*

IT 272 Implementing Secure Converged WANs (5)

Students learn how to secure and expand the reach of an enterprise network with a focus on VPN configuration and securing network access. Topics include teleworker configuration and access, frame-mode MPLS, site-to-site IPSEC VPN, Cisco EZVPN, strategies used to mitigate network attacks, Cisco device hardening, and IOS firewall features. *PREREQUISITE: IT 212 or instructor's permission.*

IT 273 Building Multilayer Switched Networks (5)

Focuses on the selection and implementation of the appropriate Cisco IOS services to build reliable, scalable, multilayer-switched LANs. Includes VLANs, Spanning Tree Protocol, wireless client access, minimizing service loss, and minimizing data theft in a campus network. *PREREQUISITE: IT 211.*

IT 274 Optimizing Converged Networks (5)

Introduces students to effective QoS techniques for optimization in converged networks with voice, wireless, and security applications. Topics include implementing a VoIP network, specific mechanisms for implementing the DiffServ QoS model, AutoQoS, wireless security, and basic wireless management. *PREREQUISITE: IT 212 or instructor's permission.*

IT 280 Designing and Implementing Network Security (5)

Provides students with the knowledge and skills necessary to design and implement a security framework for small, medium, and enterprise networks. Students learn to design and implement a public key infrastructure, configure virtual private networks, implement IPSec, harden servers, configure auditing, and perform audits. *PREREQUISITE: IT 135, 240, and 245; or instructor's permission.*

IT 285 Implementing and Securing Wireless Networks (5)

Provides students with the knowledge and skills necessary to install, configure and administer wireless networks. Provides in-depth coverage of various methods of securing wireless networks, including authentication, authorization, and encryption. *PREREQUISITE: IT 130 or instructor's permission.*

IT 286 Implementing Voice Over IP (5)

Covers the theory, planning and implementation of VoiceOver IP in the enterprise. *PREREQUISITE: IT 190 and 273; or instructor's permission.*

IT 295 Information Technology Project Management (5)

Examines the knowledge and skills to successfully plan, estimate, facilitate and successfully complete information technology projects. Students learn to use project management software to estimate costs, manage project schedules, and assign resources to project tasks. *PREREQUISITE: IT 102, 160, 190, CS& 131 or 141.*

IT 297-299 Independent Study - Information Technology 1-3 (1-5)

Encourages students to study and develop independently in the major area of IT. Students receive permission from the appropriate instructor. Students are on a tutorial basis with their instructor. *PREREQUISITE: Instructor's permission.*

Japanese (JAPN)**JAPN& 121 Japanese I (5)**

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. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly JAPAN 101.*

JAPN& 122 Japanese II (5)

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. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly JAPAN 102.*

JAPN& 123 Japanese III (5)

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. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly JAPAN 103.*

Journalism (JOURN)**JOURN 100.1 Newspaper Laboratory 1 (1-5)**

Students write, edit, design, take photographs, cartoon, and produce the print and electronic 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. *Satisfies an activity requirement for AA degree.*

JOURN 100.2 Newspaper Laboratory 2 (1-5)

Students continue to write, edit, design, take photographs, cartoon, and produce the print and electronic 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.*

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JOURN 100.3 Newspaper Laboratory 3 (1-5)

For students who have taken JOURN 100.2. Students continue to write, edit, design, take photographs, cartoon and produce the print and electronic 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 100.2.*

JOURN 101 Newswriting (5)

Prepares students to write for the media, including newspapers, public relations or online publications. Stresses newswriting mechanics, including covering a news beat, learning news style and newsroom organization and terminology. Instructor encourages students to enroll in JOURN 100.1 sequence and join the staff of The Current, GRCC's print and online publication. *Satisfies a humanities/fine arts/English requirement for AA degree.*

JOURN 103 Introduction to Desktop Publishing (5)

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 Video Editing (5)

Prepares students to create video presentations and stories. Stresses technical skills using video editing software. Course requires digital video camera and flash drive or external hard drive.

JOURN 110 Radio Laboratory 1 (3-5)

Gives students working at GRCC 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 Radio Laboratory 2 (3-5)

Gives students working at GRCC campus radio station KGRG-FM additional experience in newsgathering, remote broadcasting, and on-air performance. *PREREQUISITE: JOURN 110.*

JOURN 112 Radio Laboratory 3 (3-5)

Gives students working at GRCC campus radio station KGRG-FM additional experience in production work, news casting, and on-the-air performance. *PREREQUISITE: JOURN 111.*

JOURN 120 Digital Radio Laboratory (3-5)

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 Digital Radio Laboratory 2 (3-5)

Gives students working exclusively on all-digital KGRG (AM) radio 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 Digital Radio Laboratory 3 (3-5)

Gives students working exclusively on all-digital KGRG (AM) Radio further experience with computer-based over-the-air broadcasting. Students gain experience with the KENU Web site, as well as webcast development and maintenance. *PREREQUISITE: JOURN 121 or instructor's permission.*

JOURN 150 Introduction to Broadcasting (3)

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. Includes using a desktop publishing software, using typography and graphics, working with page grids and templates, using different treatments for features, columns, and departments, selecting an effective cover design, and using other basic computer skills needed to prepare a publication for print.

JOURN 151 Radio Production (3)

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.*

JOURN 152 Radio and the Community (3)

Covers radio management practices emphasizing the business of broadcasting. Includes sales, promotion, community relations, governmental, demographics and programming. *Satisfies a humanities/fine arts/English requirement for AA degree.*

JOURN 153 Broadcast Newswriting (3)

Gives students 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 Broadcast and New Media Announcing (3)

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 177-179 Journalism Work Experience 1-3 (1-12)

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 Independent Study - Journalism 1 (1-5)

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 Independent Study - Journalism 2 (1-5)

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 Advanced Newspaper Laboratory (1-5)

Includes advanced writing, editing, designing, taking photographs, cartooning, and producing the print and electronic 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, 100.2, 100.3, and instructor's permission. Satisfies an activity requirement for AA degree.*

JOURN 201 See CMST& 102

JOURN 205 Radio Management (3-5)

Gives students working at GRCC campus radio station KGRG-FM experience in radio management, including promotion, news and public affairs, music, traffic and logging procedures, copywriting and sports broadcasting, as well as disc jockey work. *PREREQUISITE: Instructor's permission.*

JOURN 206 Radio Workshop (3-5)

Gives students working at GRCC 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 sports broadcasting, as well as disc jockey work. *PREREQUISITE: JOURN 205 and instructor's permission.*

JOURN 207 Advanced Radio Workshop (3-5)

Gives students working at GRCC campus radio station KGRG-FM experience in radio station management, including promotion, news and public affairs, music, traffic and logging procedures, production copywriting and sports broadcasting, as well as disc jockey work. *PREREQUISITE: JOURN 206 and instructor's permission.*

JOURN 251, 253 Journalism Internship (3)

Students work for a local newspaper or radio station 10 hours per week each quarter and meets one hour a week with an instructor to evaluate their on-the-job training. *PREREQUISITE: Instructor's permission.*

JOURN 252 Journalism Internship (3)

Students work for a local media company 10 hours per week each quarter and meets one hour a week with an instructor to evaluate their on-the-job training. *PREREQUISITE: Instructor's permission.*

JOURN 254 Advanced Radio Production (3)

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 Marketing the Broadcast Media (3)

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 Broadcasting Boot Camp (3)

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 websites. 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 260 Introduction to Pro Tools (2)

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 Independent Study - Journalism 1-2 (1-5)

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.*

Library (LIB)**LIB 100 Introduction to Libraries and Information Resources (2)**

Introduces students to libraries, library organization, and their systems of information storage and retrieval. Focuses on the physical collections and information systems of the GRCC Holman Library. *This is a pass/no credit course.*

LIB 101 Searching Electronic Databases (2)

An independent study course designed to help students learn how to use Internet-delivered databases for information retrieval and research. Topics include database selection, search techniques, and evaluation of results. Focuses on databases that provide access to materials published in magazines, journals and newspapers. College-level reading skills recommended. *This is a pass/no credit course.*

LIB 102 Searching the Web (1)

An independent study course designed to help students learn how to use the World Wide Web for information retrieval and research. Topics include search engines, search techniques, and evaluation of results. Examines Yahoo, AlltheWeb, and Google in-depth. College-level reading skills recommended. *This is a pass/no credit course.*

LIB 104 Information in the Disciplines (2)

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 use information sources and information retrieval systems pertinent to the discipline under study. May be offered as a linked course. May be repeated for credit. *This is a pass/no credit course.*

LIB 110 Library Research (2)

Examines the nature of information and its use in the research process. Topics include locating, retrieving, evaluating, and citing information found in both print and electronic resources.

LIB 111 Information Seeking for Information Literacy (2)

Information literacy is the ability to recognize when information is needed and the ability to locate, evaluate, and effectively use information. Course develops the student's ability to assess when additional information beyond course materials and personal resources are needed and to identify potential sources of additional information. *PREREQUISITE: READ 104 or eligible for READ 104. This is a pass/no credit course.*

LIB 112 Information Access for Information Literacy (2)

Information literacy is the ability to recognize when information is needed and the ability to locate, evaluate, and effectively use information. Develops the student's ability to select

appropriate information resources, to construct and implement effective search strategies, and to effectively manage retrieved information. *PREREQUISITE: LIB 111. This is a pass/no credit course.*

LIB 113 Evaluating Information (2)

Information literacy is the ability to recognize when information is needed and the ability to locate, evaluate, and effectively use information. Information literate students can evaluate information and the source of information, select information appropriate for a specific purpose or audience, and synthesize different sources of information to construct new concepts. *PREREQUISITE: LIB 112. This is a pass/no credit course.*

LIB 180 Research for the 21st Century (5)

Helps students develop the skills and techniques to locate and evaluate information resources that are part of the research process. By exploring a current global issue, students understand major ideas, values, and beliefs that have shaped human history and cultures while learning how intellectual property and censorship impact our past, present, and future. *PREREQUISITE: Eligible for ENGL& 101.*

Machine Technology (MACH)**MACH 101 Beginning Machining (1-13)**

Covers beginning machine tool operation. Includes use and care of hand tools used in measurement, layout, and inspection. Stresses safety to self and others while operating pedestal grinders, drill presses, lathes, milling machines. Teaches occupational safety and health. *PREREQUISITE: Instructor's permission.*

MACH 102 Intermediate Machining (1-13)

Introduces progressively difficult operations on lathes and milling machines, with emphasis on close tolerances as applied to flatness, squareness and parallelism on surface grinders. Evaluates leadership skills. *PREREQUISITE: Instructor's permission.*

MACH 103 Advanced Machining (1-13)

Involves advanced calculations and machining operations, with emphasis on milling machines and surface grinders and their accessories. Milling operations include making table setups, digital readout, angles and pockets. Emphasizes use of optical comparator and surface plate. Evaluates leadership skills. *PREREQUISITE: Instructor's permission.*

MACH 104 Precision Machining (1-13)

Involves advanced calculations and machining operations, with emphasis on milling machines, lathes and surface grinders, and their accessories. Milling operations include making table setups, digital readout, angles and pockets. Lathe operations include turning, threading, knurling and tapping. Emphasizes use of optical comparator and surface plate. Evaluates leadership skills. *PREREQUISITE: Instructor's permission.*

MACH 105 Beginning Computerized Numerical Control (1-13)

Introduces computer numerically controlled programming (CNC) and machining. Area of study includes manual programming commands, G&M codes, programming, setup operation of a CNC mill, and sequence of CNC programming operations and fundamental use of a computer-aided manufacturing (CAD/CAM) system. Divides instruction time between classroom, computer lab, and shop, providing an unusual blend of practical theory and hands-on experience. *PREREQUISITE: Instructor's permission, conventional machining experience, and basic computer skills (such as BUS E 111, or equivalent).*

MACH 106 Intermediate Computerized Numerical Control (1-13)

For students desiring greater proficiency in advanced CNC programming and machining. Uses Mastercam, an off line programming CAD/CAM system, to teach students to CAD (draw), CAM (create tool path), NC (post process) and to transfer data from a computer to a CNC machining center. Divides instruction time between classroom, computer lab and shop. *PREREQUISITE: Instructor's permission, conventional machining experience and basic computer skills (such as BUS E 111, or equivalent).*

MACH 109 Special Machining Practice (1-13)

A modular, group-paced course presenting the fundamental principles, application and practice of competencies learned in MACH 101 through MACH 104. A capstone course in which learners may choose to refine their skills in various levels of conventional machining. *PREREQUISITE: Instructor's permission.*

MACH 162 Training and Practice (1-4)

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.*

MACH 164-165 Mastercam Level 1-2 (1-5)

Introduces students to Mastercam, including two dimensional geometry, contouring, and toolpaths. Students do not perform CNC shop machining. Students completing 5 credits can earn GRCC credential for 94 hours of Mastercam. *PREREQUISITE: Instructor's permission.*

MACH 167 Blueprint Reading - Machine Shop (3)

Introduces students to Mastercam, including two dimensional geometry, contouring, and toolpaths. Students do not perform CNC shop machining. Students completing 5 credits can earn GRCC credential for 94 hours of Mastercam. *PREREQUISITE: Instructor's permission.*

MACH 177-179 Conventional Machine Work Experience 1-3 (1-13)

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.*

Mathematics (MATH)**MATH 062 Review of Arithmetic (5)**

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 manipulative and study skills related to learning math concepts. *PREREQUISITE: BASIC 053 or appropriate placement test score. This is a pass/no credit course.*

MATH 062J Jump Start into Review of Arithmetic (2)

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 Review of Arithmetic - Resource Module (1-2)

Incorporates self-paced, individual resource modules which supplement concepts learned in MATH 062. Recommended for students who want extra help in MATH 062 and for those who need to work on specific skills to prepare for MATH 062. Students use the Math Learning Center resources such as videos, computers, supplementary books, and drop-in tutoring to work on concepts learned in MATH 062. Students must complete a minimum of 22 hours of work to receive one credit, 44 hours for two credits. *This is a pass/no credit course.*

MATH 070 Pre-Algebra (5)

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.*

MATH 070J Jump Start into Pre-Algebra (2)

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 Pre-Algebra - Resource Module (1-2)

Incorporates self-paced, individual resource modules which supplement concepts learned in MATH 070. Recommended for students who want extra help in MATH 070 and for those who need to work on specific skills to prepare for MATH 070. Students use the Math Learning

Center resources such as videos, computers, supplementary books, and drop-in tutoring to work on concepts learned in MATH 070. Students must complete a minimum of 22 hours of work to receive one credit, or 44 hours for two credits. *This is a pass/no credit course.*

MATH 072 Elementary Algebra (5)

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. Course requires a graphing calculator. *PREREQUISITE: MATH 070 with a grade of 2.5 or higher; or appropriate placement test score; or high school transcript evaluation. RECOMMEND: Eligible for READ 104.*

MATH 072.1 Extended Elementary Algebra (5)

Students learn beginning algebra concepts. Topics include problem solving, geometry and measurement, order of operations, signed numbers, fractions, ratios and proportions. Focuses on using mathematics as a language and math processing strategies. Students participate in various class projects, group and individual activities designed to transform math processing from concrete to the abstract level. Course requires a graphing calculator. *PREREQUISITE: Instructor's permission.*

MATH 072J Jump Start into Elementary Algebra (2)

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 Elementary Algebra Resource Module (1-2)

Self-paced, independent study resource modules that supplement concepts learned in MATH 072. Recommended for students who want extra help in MATH 072 and for those who need to work on specific skills to prepare for MATH 072. Students use the Math Learning Center resources such as videos, computers, supplementary books, and drop-in tutoring to work on concepts learned in MATH 072. Students must complete a minimum of 22 hours of work to receive one credit, 44 hours for two credits. *This is a pass/no credit course.*

MATH 085 Technical Mathematics 1 (5)

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 Intermediate Algebra (5)

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. Course requires a graphing calculator. *RECOMMEND: Eligible for READ 104. 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.*

MATH 097J Jump Start into Intermediate Algebra (2)

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 Intermediate Algebra - Resource Module (1-2)

Self-paced, individual resource modules that supplement concepts learned in MATH 097. Recommended for students who want extra help in MATH 097 and for those who need to work on specific skills to prepare for MATH 097. Students use the Math Learning Center resources such as videos, computers, supplementary books, and drop-in tutoring to work on concepts learned in MATH 097. Students must complete a minimum of 22 hours of work to receive one credit, 44 hours for two credits. *This is a pass/no credit course.*

MATH 106 Essentials of Pre-Calculus Mathematics (5)

Study of linear, polynomial, rational, exponential, logarithmic, and trigonometric functions; algebraic combinations of functions, composition of functions, and inverse functions. Additional topics may include complex numbers, polar coordinates, and parametric equations. Course requires a graphing calculator. *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 Math in Society (5)

Study of a variety of mathematical topics that may include finance, management science, statistics, probability, social choice, and measurement/geometry. *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. Formerly MATH 107.*

MATH 115T Natural Resources Algebra/Trigonometry 1 (5)

Study of solving equations, solving formulas, proportions, percents, calculator operations, measurement systems, geometry and right triangle and oblique triangle trigonometry with applications to natural resources technology. 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 Technical Mathematics 2 (5)

Study of right and oblique triangles, trigonometric functions of any angle, radian measure, vectors, circles, linear and angular velocity, trigonometric identities, and complex numbers and their applications to technical fields. For technical students only. *PREREQUISITE: MATH 085 with a grade of 2.0 or higher; or appropriate placement test score; or high school transcript evaluation; or instructor's permission.*

MATH 117T Technical Mathematics 3 (5)

Study of systems of linear equations, determinants, polynomials, factoring, radical equations, quadratic 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 PreCalculus 1 (5)

Study of power, polynomial, rational, exponential, and logarithmic functions and their applications; algebraic combinations of functions; composition of functions; inverse functions; transformations. Course requires a graphing calculator. *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. Formerly MATH 102.*

MATH& 142 PreCalculus 2 (5)

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. Course requires a graphing calculator. *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. Formerly MATH 104.*

MATH 147 Finite Mathematics: Business and Social Science (5)

Study of graphs and solutions of linear equations, systems of equations, matrices, linear inequalities and linear programming, the simplex method, exponential and logarithmic functions, financial formulas, sets and set notation, permutations, and combinations.

Many problems and examples are drawn from the fields of business, economics, and social science. Course requires a graphing calculator. *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. Formerly MATH 156.*

MATH& 148 Business Calculus (5)

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. Course requires a graphing calculator. *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. Formerly MATH 157.*

MATH& 151 Calculus I (5)

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. Course requires a graphing calculator. *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. Formerly MATH 124.*

MATH& 152 Calculus II (5)

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. Course requires a graphing calculator. *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. Formerly MATH 125.*

MATH& 153 Calculus III (5)

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. Course requires a graphing calculator. *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. Formerly MATH 126.*

MATH 170 Number Theory for Elementary Teachers (5)

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 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.*

MATH 171 Geometry for Elementary Teachers (5)

Study of geometry and its applications including problem solving techniques and concepts in measurement. Recommended for prospective or practicing elementary teachers. *PREREQUISITE: MATH 170 with a grade of 2.0 or higher; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.*

MATH 172 Probability and Statistics for Elementary Teachers (5)

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 teachers. *PREREQUISITE: MATH 170 with a grade of 2.0 or higher; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.*

MATH 177-179 Math Work Experience 1-3 (1-12)

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 191 Modeling Physical Systems 1 (2)

Study of techniques and procedures for mathematical modeling of physical systems. *PREREQUISITE: MATH 106 or MATH& 142 with a grade of 2.0 or higher; or appropriate placement; or instructor's permission; and concurrent enrollment in MATH& 151 and PHYS 201.*

MATH 192 Modeling Physical Systems 2 (2)

Study of techniques and procedures for mathematical modeling of physical systems. *PREREQUISITE: MATH& 151 and PHYS 201 with a grade of 2.0 or higher; or appropriate placement; or instructor's permission; and concurrent enrollment in MATH& 152.*

MATH 194 Special Topics - Mathematics (1-5)

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 Discrete Mathematics (5)

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 Differential Equations (5)

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. Course requires a graphing calculator. *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 Topics in Linear Algebra (5)

Study of systems of linear equations, vector spaces, matrices and matrix equations, eigenvalues and eigenvectors, linear transformations, and applications. Course requires a graphing calculator. *PREREQUISITE: MATH& 151 with a grade of 2.0 or higher; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.*

MATH& 254 Calculus IV (5)

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. Course requires a graphing calculator. *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. Formerly MATH 224.*

MATH 256 Statistics for Business and Social Science (5)

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; and linear regression. Course may require a graphing calculator. *RECOMMEND: Eligible for READ 104. PREREQUISITE: Either MATH& 106, MATH& 141 or MATH 147 with a grade of 2.0 or higher; or instructor's permission. Satisfies a natural science or quantitative skills requirement for AA degree.*

MATH 297 Independent Study - Mathematics (1-5)

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.*

Manufacturing Technology (MFG)**MFG 111 Measuring Systems and Quality Assurance Level 1 (3)**

Modular, group-paced course that includes basic use and care of tools, instruments and equipment used in measurement, layout and inspection. Provides instruction in basic tolerancing, inch and metric measuring systems, Cartesian coordinate system and various quality improvement processes.

MFG 112 Shop Safety and Production Procedures Level 1 (2)

Modular, group-paced course that teaches basic occupational health and safety, safe handling of hazardous materials used in manufacturing environments and other safety topics. Other topics include basic use and care of hand tools, as well as deburring, benchwork and other finishing processes.

MFG 113 Cutting Tools and Workholding Level 1 (2)

Modular, group-paced course that includes basic lathe tool and milling cutter geometry, carbide selection, as well as machining with ceramics and other superhard cutting tools. Other topics include basic lathe and mill workholding devices, as well as basic setup for turning and machining.

MFG 114 Manufacturing Planning and Processes Level 1 (1)

Modular, group-paced course that includes basic machine shop job planning, basic principles of lean manufacturing, computer-aided technology in manufacturing and statistical process control.

MFG 115 Reading Engineering Drawings Level 1

(3)

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.

MFG 116 Manufacturing Careers and Management Level 1

(1)

Modular, group-paced course that includes labor history and legislation, basic job readiness and employability preparation, career exploration, and other basic leadership and management principles. Includes tour of local manufacturing facility.

MFG 117 Conventional Milling Level 1

(2)

Modular, group-paced course that includes basic set up and safe operation of milling machines, with an emphasis on speed and feed calculations and other processes for optimal manufacturing productivity. *PREREQUISITE: Any of the following: MFG 111 or MACH 101 or higher; or instructor's permission.*

MFG 118 Conventional Turning Level 1

(2)

Modular, group-paced course that includes basic set up and safe operation of engine lathes, with an emphasis on speed and feed calculations and other processes for optimal manufacturing productivity. *PREREQUISITE: Any of the following: MFG 111 or MACH 101 or higher; or instructor's permission.*

MFG 119 Precision Grinding Level 1

(2)

Modular, group-paced course that includes basic set up and safe operation of surface grinders, with an emphasis on close tolerance work, correct wheel selection, work speed, feed, depth of cut and other processes for optimal manufacturing efficiency. *PREREQUISITE: Any of the following: MFG 111 or MACH 101 or higher; or instructor's permission.*

MFG 121 Measuring Systems and Quality Assurance Level 2

(3)

Modular, group-paced course that includes intermediate-level use and care of tools, instruments and equipment used in measurement, layout and inspection. Provides intermediate-level instruction in tolerancing, inch and metric measuring systems, Cartesian coordinate system and various quality improvement processes. *PREREQUISITE: MFG 111 or instructor's permission.*

MFG 122 Shop Safety and Production Procedures Level 2

(2)

Modular, group-paced course that teaches intermediate-level occupational health and safety, safe handling of hazardous materials used in manufacturing environments and other safety topics. Other topics include intermediate-level use and care of hand tools, as well as

deburring, benchwork and other finishing processes. *PREREQUISITE: MFG 112 or instructor's permission.*

MFG 123 Cutting Tools and Workholding Level 2

(2)

Modular, group-paced course that includes intermediate-level lathe tool and milling cutter geometry, carbide selection, as well as machining with ceramics and other superhard cutting tools. Other topics include intermediate-level lathe and mill workholding devices, as well as setup for turning and machining. *PREREQUISITE: MFG 113 or instructor's permission.*

MFG 124 Manufacturing Planning and Processes Level 2

(1)

Modular, group-paced course that includes intermediate-level machine shop job planning, principles of lean manufacturing, computer-aided technology in manufacturing and statistical process control. *PREREQUISITE: MFG 114 or instructor's permission.*

MFG 125 Reading Engineering Drawings Level 2

(3)

Modular, group-paced course that teaches intermediate-level reading and interpretation of orthographic and isometric mechanical drawings specific to the manufacturing industry. Includes intermediate-level geometric dimensioning and tolerancing (GD&T). Emphasizes details, relevant manufacturing requirements and industry standards and terminology. *PREREQUISITE: MFG 115 or instructor's permission.*

MFG 126 Manufacturing Careers and Management Level 2

(1)

Modular, group-paced course that includes labor history and legislation, intermediate-level job readiness and employability preparation, career exploration, and other intermediate-level leadership and management principles. Includes tour of local manufacturing facility. *PREREQUISITE: MFG 116 or instructor's permission.*

MFG 127 Conventional Milling Level 2

(2)

Modular, group-paced course that includes intermediate-level set up and safe operation of milling machines, with an emphasis on speed and feed calculations and other processes for optimal manufacturing productivity. *PREREQUISITE: MFG 117 or instructor's permission.*

MFG 128 Conventional Turning Level 2

(2)

Modular, group-paced course that includes intermediate-level set up and safe operation of engine lathes, emphasizing speed and feed calculations and other processes for optimal manufacturing productivity. Includes threading and other specialized turning processes. *PREREQUISITE: MFG 118 or instructor's permission.*

MFG 129 Precision Grinding Level 2

(2)

Modular, group-paced course that includes intermediate-level set up and safe operation of surface grinders, emphasizing close tolerance work, correct wheel selection, work speed, feed, depth of cut and other processes for optimal manufacturing efficiency. Introduces cylindrical grinding. *PREREQUISITE: MFG 119 or instructor's permission.*

MFG 141 CNC Systems Level 1

(2)

Modular, group-paced course that includes basic introduction to computer numerical control systems and equipment, emphasizing basic operator skills, control navigation, and programming functions. Prepares students for (and is prerequisite to) MFG 142 and 143. *PREREQUISITE: Any of the following: MFG 117, 118 or 119; or MACH 101 or higher; or instructor's permission.*

MFG 142 CNC Machining Level 1

(2)

Modular, group-paced course that includes basic introduction to computer numerical control machining (milling), emphasizing set-up, programming and operation of two- and three-axis machine tools. Topics include G&M codes, tool setting, workholding, manual programming, and manual data input. *PREREQUISITE: MFG 141 or instructor's permission.*

MFG 143 CNC Turning Level 1

(2)

Modular, group-paced course that includes basic introduction to computer numerical control turning (lathe), emphasizing set up, programming and operation of two-axis turning centers. Topics include G&M codes, tool setting, workholding, manual programming, and manual data input. *PREREQUISITE: MFG 141 or instructor's permission.*

MFG 144 CAD/CAM Systems Level 1

(2)

Modular, group-paced course that includes basic introduction to computer-aided design and manufacturing (CAD/CAM), emphasizing two-dimensional geometry, toolpaths and machining. Software currently taught is Mastercam. *PREREQUISITE: Any of the following: MFG 117, 118 or 119; or MACH 101 or higher; or instructor's permission.*

MFG 151 CNC Systems Level 2

(2)

Modular, group-paced course that includes intermediate-level study of computer numerical control systems and equipment, emphasizing operator skills, control navigation, and programming functions. *PREREQUISITE: MFG 141 or instructor's permission.*

MFG 152 CNC Machining Level 2

(2)

Modular, group-paced course that includes intermediate-level study of computer numerical control machining (milling), emphasizing set up, programming and operation of three-axis vertical machining centers. Topics include G&M codes, tool setting, workholding, manual programming, and manual data input. *PREREQUISITE: MFG 142 or instructor's permission.*

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MFG 153 CNC Turning Level 2 (2)

Modular, group-paced course that includes intermediate-level study of computer numerical control turning (lathe), emphasizing setup, programming and operation of two-axis turning centers. Topics include G&M codes, tool setting, workholding, manual programming, interactive graphics interface, and manual data input. *PREREQUISITE: MFG 143 or instructor's permission.*

MFG 154 CAD/CAM Systems Level 2 (2)

Modular, group-paced course that includes intermediate-level study of computer-aided design and manufacturing, emphasizing 3-D geometry, toolpaths and machining. Includes surfacing and solid modeling. Software currently taught is Mastercam. *PREREQUISITE: MFG 142 and 144; or instructor's permission.*

MFG 155 Advanced Manufacturing Processes (1)

Modular, group-paced course that includes basic introduction to advanced processes such as laser, waterjet, and electric discharge machining. Includes tour of a local manufacturing facility. *PREREQUISITE: MFG 111 or MACH 101 or higher; or instructor's permission.*

MFG 156 Review - Job Shadow Level 1 (1)

Modular, self-paced course that includes on-the-job experience in a manufacturing facility, as well as review of prior learning in the classroom and lab. Students submit a written report of their on-the-job experience. *PREREQUISITE: MFG 111 or MACH 101 or higher; or instructor's permission.*

MFG 157 Review - Job Shadow Level 2 (1)

Modular, self-paced course that includes a second on-the-job experience in a manufacturing facility, as well as review of prior learning in the classroom and lab. Students submit a written report of their on-the-job experience. *PREREQUISITE: MFG 156 or instructor's permission.*

MFG 158 Review - Job Shadow Level 3 (1)

Modular, self-paced course that includes a third on-the-job experience in a manufacturing facility, as well as review of prior learning in the classroom and lab. Students submit two written reports of their on-the-job experience. *PREREQUISITE: MFG 157 or instructor's permission.*

MFG 159 Review - Job Shadow Level 4 (1)

Modular, self-paced course that includes a fourth on-the-job experience in a manufacturing facility, as well as review of prior learning in the classroom and lab. Students submit two written reports of their on-the-job experience. *PREREQUISITE: MFG 158 or instructor's permission.*

MFG 160 Review - Job Shadow Level 5 (1)

Modular, self-paced capstone course that includes a fifth on-the-job experience in a manufacturing facility, as well as review of prior learning in the classroom and lab. Students submit two written reports of their on-the-job experience. *PREREQUISITE: MFG 159 or instructor's permission.*

MFG 161 CNC Systems Level 3 (2)

Modular, group-paced course that includes intermediate-level study of computer numerical control systems and equipment, emphasizing operator skills, control navigation, and manual programming. *PREREQUISITE: MFG 151 or instructor's permission.*

MFG 162 Applied Materials for Manufacturing (2)

Modular, group-paced course that includes basic introduction to the manufacture and structure of metals, the effects of alloying elements on 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.

MFG 164 Shop Math (2)

Modular, group-paced course that includes a review of basic math and arithmetic functions. Other topics include basic algebra, geometry and trigonometry for machining and manufacturing.

MFG 177 Manufacturing Work Experience (1-12)

Capstone course that allows students to work full- or part-time in a manufacturing environment directly related to their programs and interests. Students may receive a salary or volunteer. *PREREQUISITE: Concurrent enrollment in COOP 171 and instructor's permission.*

Music (MUSC)

MUSC 101 Fundamentals of Music (5)

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. Formerly MUSC 101.*

MUSC 103 American Popular Music (5)

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. Formerly MUSC 103.*

MUSC 104 Music in World Culture (5)

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. Formerly MUSC 104.*

MUSC& 105 Music Appreciation (5)

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. Formerly MUSC 100.*

MUSC 107 History of Jazz (5)

Jazz is the first uniquely American music and has had 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. Formerly MUSC 107.*

MUSC 108 Introduction to Computer Music (5)

Introduction to computer assisted notation, composition and performance using a computer, digital keyboard, and software for notation (Finale) and digital sequencing (Reason). Keyboard experience helpful but not necessary. *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSC 105.*

MUSC 109 Intermediate Computer Music (5)

A continuation of MUSC 108 with more in-depth study of sequencing software (Reason), including the construction of unique combinatorics, 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. Formerly MUSC 106.*

MUSC 110 Advanced Computer Music (5)

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 Concert Choir 1 (1-3)

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 arts/English requirement for AA degree. Formerly MUSIC 118.*

MUSC 119 Concert Choir 2 (1-3)

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. Formerly MUSIC 119.*

MUSC 120 Concert Choir 3 (1-3)

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. Formerly MUSIC 120.*

MUSC& 121 Ear Training 1 (2)

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. Formerly MUSIC 114.*

MUSC& 122 Ear Training 2 (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. Formerly MUSIC 115.*

MUSC& 123 Ear Training 3 (2)

Students continue 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. Formerly MUSIC 116.*

MUSC 124 Musical Rehearsal and Performance (5)

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. Formerly MUSIC 124.*

MUSC 127 Rendezvous Chamber Singers 1 (1-5)

Prepares and presents choral music in classical, jazz, and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. *BY AUDITION*

ONLY. PREREQUISITE: Instructor's permission. Satisfies an activity or a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 127.

MUSC 128 Rendezvous Chamber Singers 2 (1-5)

Prepares and presents classical, jazz, and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. *BY AUDITION ONLY. PREREQUISITE: MUSC 127 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 128.*

MUSC 129 Rendezvous Chamber Singers 3 (1-5)

Prepares and presents choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. *BY AUDITION ONLY. PREREQUISITE: MUSC 128 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 129.*

MUSC 130.1 Private Instruction 1 (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. Formerly MUSIC 130.1.*

MUSC 130.2 Private Instruction 2 (1)

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. Formerly MUSIC 130.2.*

MUSC 130.3 Private Instruction 3 (1)

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. Formerly MUSIC 130.3.*

MUSC& 131 Music Theory 1 (3)

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. Formerly MUSIC 111.*

MUSC& 132 Music Theory 2 (3)

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. Formerly MUSIC 112.

MUSC& 133 Music Theory 3 (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. Formerly MUSIC 113.*

MUSC 140 Class Piano 1 (2)

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. Formerly MUSIC 132.*

MUSC 141 Class Piano 2 (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. Formerly MUSIC 133.*

MUSC 142 Class Piano 3 (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 141. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 134.*

MUSC 218 Concert Choir 4 (1-3)

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. Formerly MUSIC 218.*

MUSC 219 Concert Choir 5 (1-3)

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. Formerly MUSIC 219.*

MUSC 220 Concert Choir 6 (1-3)

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. Formerly MUSIC 220.*

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MUSC& 221 Ear Training 4 (2)

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 grade of 2.0 or higher, or instructor's permission, and concurrent enrollment in MUSC 231. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 254.*

MUSC& 222 Ear Training 5 (2)

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 grade of 2.0 or higher, or instructor's permission, and concurrent enrollment in MUSC& 232. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 255.*

MUSC 227 Rendezvous Chamber Singers 4 (1-5)

Students prepare and present choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. *BY AUDITION ONLY. PREREQUISITE: MUSC 129 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 227.*

MUSC 228 Rendezvous Chamber Singers 5 (1-5)

Students prepare and present choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. *BY AUDITION ONLY. PREREQUISITE: MUSC 227 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 228.*

MUSC 229 Rendezvous Chamber Singers 6 (1-5)

Students prepare and present choral music in classical, jazz and pop idioms. Some students may be involved as rhythm section players or sound technicians. Requires extensive performance demands and additional hours for rehearsals and concerts. *BY AUDITION ONLY. PREREQUISITE: MUSC 228 and instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 229.*

MUSC 230.1 Private Instruction 4 (1)

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. Formerly MUSIC 230.1.*

MUSC 230.2 Private Instruction 5 (1)

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. Formerly MUSIC 230.2.*

MUSC 230.3 Private Instruction 6 (1)

Individual instruction in voice or on any common instrument. *PREREQUISITE: MUSC 230.2 and instructor's permission. Satisfies humanities/fine arts/English requirement for AA degree. Formerly MUSIC 230.3.*

MUSC& 231 Music Theory 4 (3)

Continues where the first-year music theory sequence leaves off, addressing advanced harmony, form, "nonfunctional" harmony, and jazz and popular music harmony. *PREREQUISITE: MUSC& 131 with a grade of 2.0 or higher, or instructor's permission, and concurrent enrollment in MUSC& 221. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 251.*

MUSC& 232 Music Theory 5 (3)

Continues where MUSC& 231 left off, addressing 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& 222. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly MUSIC 252.*

MUSC 298 Independent Study - Music 1 (1-5)

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. Formerly MUSIC 298.*

MUSC 299 Independent Study - Music 2 (1-5)

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. Formerly MUSIC 299.*

Natural Science (NSCI)

N SCI 194 Special Topics - Natural Science (1-5)

Offers a non-lab science subject matter that is not part of the regular curriculum. Content varies from course to course.

Natural Resources (NATRS)

NATRS 100 Introduction to Natural Resources (5)

Introduces the study of natural resources outdoors and in a classroom setting. Explores natural resources careers. Introduces concepts of systems, Biomes forest biology, tree physiology, forest ecology, silviculture, water resources, fish and wildlife management, and fire ecology. Students study forest history, forest policy, and forest ownership. *PREREQUISITE: Eligible for ENGL 100. NATRS 172 or concurrent enrollment or instructor's permission.*

NATRS 117 Aerial Photo Uses and Ground Based Mapping (2)

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 100 and any 100-level MATH or concurrent enrollment.*

NATRS 120 Riparian Restoration (5)

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 Introduction to Community Forestry (4)

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, and plant health, fertilizers, integrated pest management, regulations and environmental laws, safety, customer service, business management, greenhouse management. Uses demonstrations and labs inside and outside.

NATRS 122 Urban Ecology (3)

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 Landscape Planning and Practices (3)

Covers landscape planning and application in municipal, right-of-way, buffers, commercial applications, and parks settings. Covers equipment, safety, environmental laws and regulations, arboriculture, risk management, aesthetics, and forest health. Uses demonstrations and labs inside and outside. *PREREQUISITE: NATRS 121 or instructor's permission.*

NATRS 130 Wildland Firefighter Training I-100 and S-130/190 (4)

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 Advanced Wildland Firefighter Training S-131 (1)

Sequence training course for Type 2 wildland firefighters in advanced firefighting skills leading to squad boss (FTI) 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 Wildland Firefighter Crew Boss S-230 (2)

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 Wildland Firefighter Engine Boss S-231 (1)

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. Engine Operator. This is a pass/no credit course.*

NATRS 134 Intermediate Wildland Fire Behavior S-290 (3)

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 Wildlife Habitat Management (5)

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 100; and NATRS 172; or instructor's permission.*

NATRS 162 Biology and Conservation of Birds (3)

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 100; and NATRS 172 or concurrent enrollment, or instructor's permission.*

NATRS 172 Computer Applications Overview (4)

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: BUS E 100 or instructor's permission.*

NATRS 180 Natural Resources Measurement (7)

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.*

NATRS 181 Forest Navigation and Mapping (8)

Teaches the use of compass and chain/tape, mapping, map reading, topography, orientation, area determination, triangulation, the U.S. survey system, notekeeping, field reporting, GPS (Global Positioning Systems), and pacing. Uses extensive field exercises in individual, team, and group situations. Students conduct open and closed traverses of roads, trails, and areas. *PREREQUISITE: NATRS 180 with a grade of 1.0 or higher; or instructor's permission.*

NATRS 182 Air Photo Interpretation and Remote Sensing (5)

Studies and uses aerial photographs to interpret vegetation and landforms, measure distance and direction, and to navigate. Surveys remote sensing technologies, GPS and GIS systems. Uses extensive field exercises. Students conducts basic tree measurements. Students apply previously learned mathematical concepts and field skills. *PREREQUISITE: NATRS 181 or concurrent enrollment.*

NATRS 183 Tree and Shrub Identification (5)

Collects specimens and identifies common trees and shrubs found in Washington forests. Teaches the use of taxonomic keys and their ecological characteristics and growth habits. *PREREQUISITE: NATRS 172 or instructor's permission.*

NATRS 184 Shrub and Wildflower Identification (5)

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 172 or instructor's permission.*

NATRS 185 Shrub and Flower Systematics (5)

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 197 Wildland Recreation (4)

Students learn skills needed to develop and manage wildland parks and recreational sites for private, state, and federal owners. Students visit, observe, and participate in actual projects within the growing wildland recreational industry. *PREREQUISITE: Eligible for ENGL 100 and NATRS 172; or instructor's permission.*

NATRS 198-199 Independent Study - Natural Resources 1-2 (1-5)

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.*

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NATRS 210 Introduction to Soils (5)

Introduces the study of physical and chemical properties of soil and soil ecology. Includes topics on soil formation, plant nutrition, soil water, water and soil conservation, soil erosion and stability, and use of soil maps. Schedules mini labs and field trips to offer hands-on experience. Discusses influence of soils on environmental quality, human health, and forest and agricultural economies. *PREREQUISITE: BUS E 100 or NATRS 172; and ENGL& 101 or concurrent enrollment, or instructor's permission.*

NATRS 270 Stream and Wetland Ecology (5)

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: Eligible for ENGL 100 and NATRS 172; or instructor's permission.*

NATRS 271 Stream and Wetland Restoration (5)

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 100; and NATRS 100 and 172 or concurrent enrollment, or instructor's permission.*

NATRS 272 Fish Identification and Habitat (5)

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: Eligible for ENGL& 101; and NATRS 172 or instructor's permission.*

NATRS 284 Road and Trail Engineering (6)

Covers road and recreational trail location priorities, location on topographic maps with grade, slope, and property line constraints; Forest Practice Regulations; harvesting and construction equipment; curve computation and field layout; slope staking and cut/fill computation; culvert location; surfaces and drainage; calculations for cut/fill and curves; plan and profile drawing of fieldwork. Uses extensive field exercises in team and group situations. *PREREQUISITE: NATRS 172 and 181 or equivalent, or concurrent enrollment.*

NATRS 285 Forest Protection (5)

A study of forest health and the effects of wildfire, insects, disease, animal damage, and abiotic damage on natural resources. Uses classroom, field studies, and library research. *PREREQUISITE: ENGL 100 or concurrent enrollment and NATRS 172 or equivalent or concurrent enrollment.*

NATRS 286 Natural Resources Business Principles (5)

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 100 or concurrent enrollment; and NATRS 172 or concurrent enrollment.*

NATRS 290 Internship Seminar (1)

For career-oriented natural resources students as a sequential course to NATRS 294. Covers business letters, resumes, and 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 Resource Sampling and Appraisal (8)

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 gained in previous Natural Resources courses. *PREREQUISITE: NATRS 182 and 285; or concurrent enrollment. This is a pass/no credit course.*

NATRS 293 Silvicultural Analysis (5)

Study of silvicultural 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 Natural Resources Internship (14)

Students work full time in a paid or volunteer position for an agency or company that enhances their technical skills, thus preparing them for career employment. Students earn all 14 credits by working 462 hours during spring 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

internship position. *PREREQUISITE: NATRS 290 and instructor's permission. This is a pass/no credit course.*

NATRS 297-299 Independent Study - Natural Resources 4-6 (1-5)

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.*

Nursing (NURSE)

NURSE 101 Introduction to Computers in Nursing (1)

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 Introduction to Clinical Pharmacology in Nursing (3)

Introduces clinical drug therapy emphasizing the knowledge and interventions needed to maximize therapeutic effects and prevent or minimize adverse effects of drugs. Major content areas include basic concepts of pharmacology, groups of therapeutic drugs, prototypes of drugs, commonly prescribed individual drugs, drug effects on body tissues, and applying the nursing process in relation to prescribed therapy regimens. *PREREQUISITE: Enrollment in Practical Nursing program or instructor's permission.*

NURSE 103 Drug Therapy and the Nursing Process (2)

Additional study of clinical pharmacological principles for practice, administration of medication, and the evaluation of the patient. Emphasizes major drug classes (cardiovascular, respiratory, gastrointestinal, central nervous system), and the application of the nursing process. *PREREQUISITE: NURSE 102 or instructor's permission.*

NURSE 104 Nursing 1 - Fundamentals (6)

Introduces health-illness continuum, and integrates concepts of basic health and nursing process throughout each unit. *PREREQUISITE: Completion of pre-admission requirements.*

NURSE 105 Community Lab 1 (4)

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 Nursing 2 (8)
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; or instructor's permission.*

NURSE 107 Nursing 2 Community Lab 2 (8)
A community lab experience planned concurrently with NURSE 106. Provides opportunity to learn basic to more advanced nursing skills including patient/client assessment, basic hygiene and assistance with activities of daily living. Uses local health facilities. *PREREQUISITE: Concurrent enrollment in NURSE 106.*

NURSE 108 Introduction to Computer Case Studies in Nursing (2)
Using a computer-based hospital information system, nursing students search a simulated client database to locate requested information and answer questions posed in exercises, including administration of medication, nursing care development, and documentation of nursing care. Students gain problem-solving and organizational skills required to provide nursing care to adult and pediatric clients. *PREREQUISITE: Enrollment in the Practical Nursing program or NURSE 101.*

NURSE 109 Nursing 3 Community Lab 3 (8)
A lab experience planned concurrently with NURSE 110. Provides opportunity to learn basic to more advanced nursing skills including patient/client assessment, basic hygiene and assistance with activities of daily living. *PREREQUISITE: Concurrent enrollment in NURSE 110.*

NURSE 110 Nursing 3 (8)
Study of diseases through the identification of the relationships and similarities of health problems. Students apply this information to all age groups. *PREREQUISITE: NURSE 106 or instructor's permission.*

NURSE 112 Nursing 4 (6)
Studies 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 Nursing 4 Community Lab 4 (6)
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 116 Nursing Issues and Delivery Systems (3)
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 118 Advanced Computer Case Studies in Nursing (1)
Focuses on concepts relevant to hospital information systems combined with critical thinking and analysis in a variety of clinical simulations. The main focus is on the use of patient case studies to support clinical decision-making. *PREREQUISITE: Enrollment in Practical Nursing program or NURSE 101 or 108.*

NURSE 122 Health Professionals CPR with AED (1)
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 AIDS/CPR Safety/Infection Control (2)
Intended for nurse assistant, practical nurse and other personnel in health care settings who need an update in AIDS/HIV and CPR/AED training. Follows American Heart Association protocols.

NURSE 198 Independent Study - Nursing (1-10)
Meets special objectives of a licensed practical nurse from other states seeking licensure in Washington State. Students are responsible to meet with an Practical Nursing advisor and agree to a specific objective contract which identifies a unit of credits, and learning experiences to be completed. This contract is filed with the Dean of Instruction, Health Science and Family Studies. *PREREQUISITE: Instructor's permission.*

Nutrition (NUTR)

NUTR& 100 Nutrition (5)
Introduces students to the fundamental nutritional concepts throughout the life span. Focuses on foods included in the food pyramid, which supply the major nutrients. *PREREQUISITE: AP 100 with a grade of 2.3 or higher and instructor's permission. Formerly NURSE 100.*

Occupational Therapy (O T)

O T 100 Introduction to Occupational Therapy (3)
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.*

O T 102 Physical Disabilities 1 (4)
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: AP 103 or BIOL& 241 and instructor's permission.*

O T 105 Clinical Seminar 1 (1)
Teaches students the basics of client-therapist interaction, documentation, clinical issues, and therapeutic techniques. Includes weekly discussion of concurrent clinical experiences. *PREREQUISITE: Instructor permission and concurrent enrollment in O T 177.*

O T 106 Professional Advocacy Experience (1)
Acquaints students with therapy practitioners' 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 108 Psychosocial Dysfunction (5)
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 109 Developmental Disabilities (4)
Students study the conditions that impede normal growth and development with special emphasis on cerebral palsy, mental retardation and learning disabilities. Explores developmentally appropriate occupational therapy treatment methods with opportunity for experiential learning of patient handling techniques. *PREREQUISITE: Instructor's permission.*

O T 110 Fundamentals of Occupational Therapy as Health Care Providers (4)
Students learn basic patient-therapist interaction and communication skills, introductory use of medical terminology, patient confidentiality and HIPAA rules, and 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.*

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O T 115 Therapeutic Activities 1 (3)

Study of techniques and assessments used in a therapeutic environment. Includes basic therapeutic craft techniques, body mechanics with videotaping, hand function assessments, visual impairments, and homemaking adaptations. *PREREQUISITE: Instructor's permission.*

O T 116 Physical Disabilities 2 (5)

Second of a two-quarter sequence. Includes the 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 experiences in patient assessment and treatment techniques, transfers, positioning, daily living skills, splint fabrication, and patient assessment. *PREREQUISITE: AP 104 or BIOL& 242 or instructor's permission.*

O T 177 Application of O T Co-op Experience 1 (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 permission. This is a pass/no credit course.*

O T 178 Application of O T Co-op Experience 2 (1)

Students participate in supervised clinical experience with patients in a community health care facility. Includes observation, planning and implementation of patient treatments as assigned by clinical supervisor. *PREREQUISITE: Instructor permission and concurrent enrollment in O T 206. This is a pass/no credit course.*

O T 194 Special Topics - Occupational Therapy (1-2)

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 Independent Study - Occupational Therapy (1)

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 202 Ethics, Values, and Responsibility in Health Care (3)

An advanced course where students learn through lecture/discussion and practical experiences professional behaviors consistent with standards established by occupational therapy practice. Includes knowledge of

principles, professional development, and basic rules and laws governing occupational therapy practice. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

O T 204 Application of Activities (5)

Advanced course that incorporates application of theories in the analysis, selection and use of activities in a therapeutic environment which addresses needs of diverse patient populations. Includes documentation, recordkeeping, service operations, safety, and infection control responsibilities. *PREREQUISITE: O T 102 and 108.*

O T 206 Clinical Seminar 2 (1)

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 210 Therapeutic Adaptations (5)

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 materials to design, modify, and fabricate special equipment and assistive devices for the disabled. Stresses skills needed to safely work with hand and power tools. *PREREQUISITE: O T 215 or instructor's permission.*

O T 211 Pre-Fieldwork Experience Seminar (2)

Prepares student for successful completion of Level 2 fieldwork emphasizing 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 212 Therapeutic Activities 2 (3)

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 215 Work Place Issues (3)

Provides students with classroom and lab instruction in the basics of woodworking, ergonomics, worksite ergonomic assessments and safety within the workplace. Students gain experience instructing and supervising developmentally delayed clients in community workshop settings as well as performing task analysis and application of one-on-one teaching techniques. *PREREQUISITE: Instructor's permission.*

O T 220 Therapeutic Group Leadership (2)

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 250 Fieldwork Experience Seminar 1 (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. This is a pass/no credit course.*

O T 251 Fieldwork Experience Seminar 2 (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 278. This is a pass/no credit course.*

O T 277 Co-op Fieldwork Experience 1 (12)

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 Co-op Fieldwork Experience 2 (12)

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 Introduction to Oceanography (5)

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. *Satisfies a lab or natural science requirement for AA degree. Formerly OCEAN 101.*

Physical Education (P E)

P E 101 Physical Fitness Lab (2)

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 Jogging (2)

Focuses on cardiorespiratory fitness through jogging on our 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 Total Physical Fitness (3)

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 Basketball (1)

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 Tennis (1)

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 Court Games (3)

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 Golf (1)

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 Aerobic Walking (2)

Focuses on cardiorespiratory fitness through aerobic walking on our 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 Karate (1)

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 Group Dynamic Activities (1)

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 8-hour days.

P E 114 Cardio Conditioning (1)

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 Kick-Box Aerobics (1)

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 Badminton/Pickleball (1)

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 Volleyball (1)

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 Intermediate and Advanced Volleyball (1)

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 Badminton (1)

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 Archery (1)

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 Indoor Soccer (1)

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 Soccer (1)

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 129 Pickleball (1)

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 Weight Training (2)

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 Strength Conditioning (1)

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 Tai Chi 1 (1)

Focuses on Tai Chi as a lifetime leisure activity. Students learn the first half of the complete Chen Style Simplified 24 Form and Qi Gong 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 Yoga 1 (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 body and mind.

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P E 137 Body Toning (1)

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 Aerobic Dance (1)

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 Step Aerobics (1)

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 Step and Weights (1)

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 Qi Gong (1)

Uses Qi Gong to focus on balance, interior training, energy, and body awareness. Instructor leads 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 Karate and Kickbox Aerobics (1)

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 workout. Participation in kick-box aerobics follows karate.

P E 144 Cross-Training (1)

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 Pilates/Yoga (1)

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 CORE Training (1)

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 CORE Training for Health (2)

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 Intermediate Basketball (1)

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 Cardio Fusion (1)

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 Exercise and Nutrition (3)

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 Exercise and Health (3)

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 Fitness and Health (3)

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 Field Hiking (1-2)

Focuses on field hiking for students concurrently enrolled in GRCC'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 GRCC Study Abroad Program.*

P E 198 Independent Study - Physical Education 1 (1-3)

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 Advanced Physical Fitness Lab (2)

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.*

P E 202 Physical Fitness Lab (2)

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 Advanced Basketball (1)

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 Intermediate Golf (1)

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 Advanced Tennis (1)

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 Advanced Jogging (2)
 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 Advanced Aerobic Walking (2)
 Allows students to continue and 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 Advanced Karate (1)
 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 Advanced Soccer (1)
 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 Advanced Weight Training (2)
 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 Tai Chi 2 (1)
 Focuses on Tai Chi as a lifetime leisure activity. Students learn the second half of the complete Chen Style Simplified 24 Form and qi gong 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 Yoga 2 (1)
 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 251 Advanced Sport Conditioning (2)
 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 Advanced Total Physical Fitness (3)
 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 298 Independent Study - Physical Education 2 (1-3)
 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 Therapist Assistant (P T)

P T 101 Introduction to Physical Therapy (3)
 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.*

P T 102 Therapeutic Interaction in Health Care (2)
 Explores the skills, behaviors, and attitudes necessary for effective patient-practitioner interaction, peer interaction and team participation. *PREREQUISITE: Instructor's permission.*

P T 105 Patient Care Skills (3)
 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.*

P T 110 Principles of Physical Therapy Agents I (5)
 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: P T 110.*

P T 111 Principles of Physical Therapy Agents 2 (6)
 Covers the study of and application of physical therapy agents including ultrasound, phonophoresis, iontophoresis, electromagnetic radiation, electrotherapy, biofeedback, cervical and lumbar traction. *PREREQUISITE: P T 110.*

P T 112 Functional Training (2)
 Covers the study of and application of functional training techniques used in the treatment of physical dysfunction. *PREREQUISITE: H SCI 101.*

P T 113 Posture and Movement (4)
 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.*

P T 114 Tests and Measurements (2)
 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.*

P T 130 Survey of Pathophysiology 1 (3)
 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.*

P T 131 Survey of Pathophysiology 2 (2)
 Explores disease processes related to the cardiac, respiratory, digestive, neurologic and endocrine systems and their effects on rehabilitation. Addresses lab values, diagnostic tests and medications related to these specific systems. *PREREQUISITE: P T 130.*

P T 151 Clinical Preparation (1)
 Discusses topics that prepare students for clinical experience including the development of an individualized clinical education plan. *PREREQUISITE: P T 110.*

P T 199 Independent Study - Physical Therapy (1-8)
 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 8 credits. *PREREQUISITE: Instructor's permission.*

P T 201 Issues in Health Care (3)
 Study of the relationship of medical, legal and socioeconomic issues to the practice of physical therapy. Discussion of related topics in health care to physical therapist assistant practice, and explores management concerns and fiscal issues in physical therapy.

P T 210 Therapeutic Exercise (5)
 Focuses on theory and principles of therapeutic exercise and selected kinesiological and neurologic principles related to therapeutic exercise. *PREREQUISITE: P T 114.*

P T 211 Advanced Rehab Procedures (6)
 Focuses on theory and application of physical therapy techniques to the treatment of specific disabilities primarily of neurologic origin. *PREREQUISITE: P T 210.*

P T 212 Acute Care (3)
 Explores physical therapy in acute care including cardiac care, pulmonary care, burn care and geriatrics. *PREREQUISITE: P T 130.*

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P T 213 Orthopedic Therapy (5)
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: P T 210.*

P T 251 Clinical Supervision 1 (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: P T 151 and concurrent enrollment in P T 277.*

P T 252 Clinical Supervision 2 (1)
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 P T 278. *PREREQUISITE: P T 251 and concurrent enrollment in PT 278.*

P T 253 Clinical Supervision 3 (1)
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: P T 252 and concurrent enrollment in P T 279 or 280. This is a pass/no credit course.*

P T 277 Clinical Affiliation 1 (1)
Students gain supervised clinical experience and familiarization 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 to date. *PREREQUISITE: Concurrent enrollment in PT 251. This is a pass/no credit course.*

P T 278 Clinical Affiliation 2 (1)
Students gain supervised clinical experience and familiarization with a clinical setting in which physical therapy is practiced. Setting is different from P T 277. Students are expected to participate in patient care, applying knowledge and skills from coursework to date. *PREREQUISITE: Concurrent enrollment in P T 252. This is a pass/no credit course.*

P T 279 Clinical Affiliation 3 (7)
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: PT 278 and concurrent enrollment or completion of P T 253. This is a pass/no credit course.*

P T 280 Clinical Affiliation 4 (7)
A second internship requiring practical performance and application of physical therapy

procedures and techniques under supervision in a clinical setting different from P T 279, in an inpatient, outpatient or specialized practice. *PREREQUISITE: P T 279 and concurrent enrollment in or completion of P T 253. This is a pass/no credit course.*

Parent Child Education (PCE)

PCE 112-114 Parent-Child Education (0-1 year old) (2)
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 Parent-Child Education (1-2 year old) (2)
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 Parent-Child Education (2-3 years old) (2)
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 Parent-Child Education (3-4 years old) (2)
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 Parent-Child Education (3-6 years old) (2)
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 Parent-Child Education (4-5 years old) (2)
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 Parent-Child Education (4-6 years old) (2)

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 will focus on literacy. *PREREQUISITE: Instructor's permission. This is a pass/no credit course.*

Philosophy (PHIL)

PHIL& 101 Introduction to Philosophy (5)
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? *Satisfies a humanities/fine arts/English requirement for AA degree. Formerly PHIL 100.*

PHIL 102 Contemporary Moral Problems (5)
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. *Satisfies a humanities/fine arts/English requirement for AA degree.*

PHIL 103 Historical Survey - Ancient Philosophy (5)
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. *Satisfies a humanities/fine arts/English requirement for AA degree.*

PHIL 104 Historical Survey - Medieval Philosophy (5)
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. *Satisfies a humanities/fine arts/English requirement for AA degree.*

PHIL 105 Historical Survey - Modern Philosophy (5)

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

PHIL& 106 Introduction to Logic (5)

Introduces students to the quantitative techniques used in symbolic logic, including both propositional and predicate logic. Topics may include recognizing arguments, translating from a natural to a formal language, validity of arguments, logical implication, equivalency, and consistency. *Satisfies a natural science requirement or, under certain conditions, the quantitative component of the basic skills requirement for AA degree. Formerly PHIL 120.*

PHIL 110 Social and Political Philosophy (5)

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

PHIL 112 Ethics in the Workplace (5)

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

PHIL 114 Philosophical Issues in Law (5)

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

PHIL 115 Reasoning in Everyday Life (5)

Introduces students to the elements of reasoning and critical thinking. Sample topics include language analysis, inductive reasoning, statistical analysis, causal reasoning, arguments from analogy and fallacious patterns of reasoning. Students examine arguments in real-life situations, such as in conversations,

television presentations, political speeches, editorials, and other writings on various topics. *Satisfies a humanities/fine arts/English requirement for AA degree.*

PHIL 160 Introduction to the Philosophy of Science (5)

Introduces students to the nature of scientific theories, how they are justified, and why they are accepted, using examples from the history of science. Helps students better understand and deal with issues relating to the kinds of explanations used in the physical and social sciences. Students gain a deeper understanding of how these issues are central to disciplines such as biology, psychology, physics, sociology, history, geology, anthropology, and economics. *Satisfies a humanities/fine arts/English requirement for AA degree.*

PHIL 194 Special Topics - Philosophy (3-5)

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.

PHIL 199 Independent Study - Philosophy 1 (1-5)

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.*

PHIL 200 Introduction to the Philosophy of Religion (5)

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

PHIL 206 Gender and Philosophy (5)

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

PHIL 210 Comparative Religion (5)

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

PHIL 215 Advanced Studies in Formal Logic (5)

Continues to study the quantitative and symbolic techniques used in formal logic. Covers an advanced study of predicate logic and introduction of non-classical logics. Students may also review some metalogic proofs and is introduced to topics in the philosophy of logic. *PREREQUISITE: PHIL& 106 with a grade of 2.0 or higher and eligible for MATH& 141. Satisfies a natural science requirement for AA degree.*

PHIL 220 Introduction to Eastern Philosophy (5)

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

PHIL 236 Existentialism (5)

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. Highly recommend completion of ENGL& 101 or similar course. *Satisfies a humanities/fine arts/English requirement for AA degree.*

PHIL 238 Introduction to Philosophy of Human Rights (5)

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

PHIL 240 Introduction to Ethics (5)

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? and What, if anything, makes a person a good person? *Satisfies a humanities/fine arts/English requirement for AA degree.*

PHIL 243 Environmental Ethics (5)

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

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PHIL 299 Independent Study - Philosophy 2 (1-5)

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.*

Photography (PHOTO)

PHOTO 101 Beginning Black and White Photography (5)

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 Intermediate Photography (5)

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 Advanced Photography (5)

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 Beginning Digital Photography (5)

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 digital camera. *Satisfies an activity requirement for AA degree.*

PHOTO 112 Intermediate Digital Photography (5)

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 digital camera. *PREREQUISITE: PHOTO 111. Satisfies an activity requirement for AA degree.*

PHOTO 113 Advanced Digital Photography (5)

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 digital camera. *PREREQUISITE: PHOTO 112. Satisfies an activity requirement for AA degree.*

PHOTO 197 Independent Study - Photography (1-5)

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.*

Physics (PHYS)

PHYS 105 Concepts of the Physical World (5)

For the student with no previous experience in physics or other physical science courses and even an apprehension toward science and math. Topics such as light, sound, electricity, motion, are used to develop underlying principles which describe some of our physical universe. Stresses conceptual reasoning while mathematics is limited to arithmetic reasoning. Uses a hands-on approach to more easily gain insight to the concepts being studied. *Satisfies a lab or natural science requirement for AA degree. Formerly PHYS 101.*

PHYS 110 Introduction to College Physics (5)

For students in technical and transfer programs. Course goals are to further develop an understanding of basic concepts of physics and analytical and problem-solving skills. Laboratory is an integral component of the course. Covers Newton's Laws from the framework within which ideas of motion, forces, momentum and energy are studied. No credits given to students who have completed PHYS 150. *PREREQUISITE: A grade of 2.0 or higher in MATH 097 or 116T; or 1½ years of high school algebra. Satisfies a lab or natural science requirement for AA degree.*

PHYS 111 College Physics 2 (5)

Continues the goals of PHYS 110. Course is based on concepts involving thermal properties of matter, and electricity and magnetism. Teaches the properties of fluids as time permits. *PREREQUISITE: A grade of 2.0 or higher in PHYS 110 and in MATH 097, or 117T, or 1½ years of high school Algebra. Satisfies a lab or natural science requirement for AA degree.*

PHYS 112 College Physics 3 (5)

Continues the goals of PHYS 111. Explores the concepts associated with wave phenomena and atomic physics. Uses sound, light (including lasers) and mechanical vibrations as examples of waves. *PREREQUISITE: A grade of 2.0 or higher in PHYS 110 and in MATH 097, 117T or 1½ years of high school Algebra. Satisfies a lab or natural science requirement for AA degree.*

PHYS 150 Physics for the Life Sciences 1 (5)

For students in college transfer programs, especially those interested in biological or medical sciences. Course develops an understanding of the basic concepts of physics and analytical and problem-solving skills with applications to biological systems. Laboratory is an integral component of the course. Teaches the dynamics of heat, energy, fluid flow, and electricity with biological and medical applications. No credit given to students who have completed PHYS 110. *PREREQUISITE: A grade of 2.0 or higher in MATH 097 or 116T or 1½ years of high school Algebra. Satisfies a lab or natural science requirement for AA degree.*

PHYS 151 Physics for the Life Sciences 2 (5)

For students in college transfer programs, especially those interested in biological or medical sciences. Course develops an understanding of the basic concepts of physics and analytical and problem-solving skills with applications to biological systems. Laboratory is an integral component of the course. Teaches the dynamics of oscillations, waves, electromagnetism, and light with biological and medical applications. No credit given to students who have completed PHYS 111. *PREREQUISITE: A grade of 2.0 or higher in PHYS 110 or 150 and in either MATH 097 or 1½ years of high school Algebra. Satisfies a lab or natural science requirement for AA degree.*

PHYS 152 Physics for the Life Sciences 3 (5)

For students in college transfer programs, especially those interested in biological or medical sciences. Course develops an understanding of the basic concepts of physics and analytical and problem-solving skills with applications to biological systems. Laboratory is an integral component of the course. Teaches the dynamics of oscillations, waves, electromagnetism, and light with biological and medical applications. No credit given to students who have completed PHYS 112. *PREREQUISITE: A grade 2.0 or higher in PHYS 110 or 150; and either MATH 097 or 116T, or 1½ years of high school Algebra. Satisfies a lab or natural science requirement for AA degree.*

PHYS 201 Physics/Science - Engineer (5)

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:* A grade of 2.0 or higher in PHYS 110 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.

PHYS 202 Physics/Science - Engineer (5)

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:* A grade of 2.0 or higher in PHYS 201 and MATH& 151 and at least concurrent enrollment in MATH& 152. Satisfies a lab or natural science requirement for AA degree.

PHYS 203 Physics/Science - Engineer (5)

Study of classical wave properties with applications to mechanical and electrical systems, sound, electromagnetic waves, light, and atomic physics. *PREREQUISITE:* A grade of 2.0 or higher in PHYS 202 and MATH& 152 and at least concurrent enrollment in MATH& 153. Satisfies a lab or natural science requirement for AA degree.

PHYS 208 Electric and Magnetic Fields (2)

Introduces the quantitative laws of electricity and magnetism including principles of electromagnets, electric generators, and electromagnetic waves. *PREREQUISITE:* A grade of 2.0 or higher in PHYS 202 and MATH& 152 and at least concurrent enrollment in MATH& 153. Satisfies a natural science requirement for AA degree.

PHYS 225 Modern Physics (3)

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:* A grade of 2.0 or higher in PHYS 202 and MATH& 152 and at least concurrent enrollment in PHYS 203 and MATH& 153. Satisfies a natural science requirement for AA degree.

PHYS 298 Independent Study - Physics (1-5)

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 090 Basic Political Science (3)

Introduces students to the field of political science. Includes brief treatments of political philosophy, historic development of political thought, use of political parties, major "isms" (communism, fascism, etc.) and basic

concepts of international relations. For general studies and high school completion. Formerly P SCI 090.

POLS& 101 Introduction to Political Science (5)

Introduces students to the discipline of political science and to politics itself. Explores and analyzes political philosophies, political ideologies, historical development of political thought, democracy, authoritarianism, and the major isms (liberalism, conservatism, capitalism, socialism, communism, and fascism). Explores the kinds of governmental structures that are associated with each of the ideologies. Students begin to assess how well each ideology has dealt with the social, economic, and political problems of the world, in the past and present. Further, students explore and analyze why and under what conditions people choose any ideology over others. Satisfies a social science requirement for AA degree. Formerly P SCI 100.

POLS 194 Special Topics - Political Science (5)

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 focus. Student may be involved in selecting projects and research topics. *PREREQUISITE:* Instructor's permission required for individual researcher projects. Formerly P SCI 194.

POLS& 200 Introduction to Law (5)

Introduces 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 perspective, 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. Formerly B A 200.

POLS& 202 American Government (5)

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. Formerly P SCI 202.

POLS& 203 International Relations (5)

Introduces students to major theoretical approaches in 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. Formerly P SCI 203.

POLS& 204 Comparative Government (5)

A comparative analysis of the varied politics and governing systems around the globe, including democratic and non-democratic systems, capitalist and socialist systems. Covers specialization to selected countries from regions around the world. Explores and analyzes the political issues and problems in their historical, economic, and cultural contexts. *PREREQUISITE:* Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree. Formerly P SCI 201.

POLS 207 American Political Participation (5)

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. Formerly P SCI 207.

POLS 209 State and Local Government and Politics (5)

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. Formerly P SCI 204.

POLS 298 Independent Study - Political Science (1-5)

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. Formerly P SCI 298.

Psychology (PSYC)

PSYC& 100 General Psychology (5)

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

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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. *Satisfies a social science requirement for AA degree. Formerly PSYCH 100.*

PSYC& 180 Human Sexuality (5)

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 instructor's permission. Satisfies a social science requirement for AA degree. Formerly PSYCH 200.*

PSYC& 200 Lifespan Psychology (5)

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. Formerly PSYCH 210.*

PSYC 201 Personality (5)

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. Formerly PSCYH 201.*

PSYC 209 Fundamental of Psychological Research (5)

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. Formerly PSYCH 209.*

PSYC& 220 Abnormal Psychology (5)

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. Formerly PSYCH 250.*

PSYC 225 Fundamentals of Physiological Psychology (5)

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. Formerly PSYCH 220.*

PSYC 298 Independent Study - Psychology 1 (1-5)

Allows students to pursue a special field of interest in psychology under the guidance of an instructor. *PREREQUISITE: PSYC& 100 and instructor's permission. Formerly PSYCH 298.*

PSYC 299 Independent Study - Psychology 2 (1-5)

Continues project started in PSYC 298, or a second project. *PREREQUISITE: PSYC 298 and instructor's permission. Formerly PSYCH 299.*

Reading (READ)

READ 083.1-083.3 Reading Proficiency 1-3 (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.*

READ 084 Reading Essentials (5)

For students who wish to develop a solid foundation of basic reading skills as preparation for college, the workplace and/or for personal needs. Emphasizes vocabulary development; the reading process; identification of main ideas and supporting details; and analyzing structure. Addresses techniques for annotating and summarizing texts, and improving reading rate and fluency. *PREREQUISITE: Appropriate placement score or instructor's permission.*

READ 094 Reading Improvement (5)

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, reading rate, and flexibility. *PREREQUISITE: Completion of READ 084 with a*

grade of 2.0 or higher; or appropriate placement score; or instructor's permission.

READ 104 Reading Mastery (5)

Emphasizes the development of the critical reading and thinking skills (analysis, synthesis, and evaluation) needed for courses in the humanities, social sciences, and sciences. Includes vocabulary development and the improvement of reading speed while maintaining comprehension. *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 Real Estate Fundamentals 1 (3)

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 and real estate ownership operation, real estate math, Washington law and the real estate industry.

R EST 102 Real Estate Fundamentals 2 (3)

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 104 Real Estate Examination Preparation (1)

Entire 10 hours of instruction focuses on topical matters associated with preparation for licensing exams. *PREREQUISITE: R EST 101.*

R EST 110 Varies (2)

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 education requirement, as approved by the Washington state Department of Licensing.

R EST 120 Real Estate Law (3)

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 EST130 Residential Appraisal (3)

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 Real Estate Sales Practices (3)

Teaches the whys 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 Real Estate Finance (3)

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 Investment/Commercial Appraisal (3)

Subject properties include: residential income (five or more units), mobile home parks, offices, shopping centers, industry and warehouse properties, raw land and development. Approaches to valuation: income, capitalization, replacement and cost.

R EST 170 Real Estate Property Management (3)

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 Office Administration (3)

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 205 Appraisal Standards and Ethics (2)

A brief review of the principles of appraising, the appraisal process, the Appraisal Foundation, the Uniform Standards of Professional Appraisal, Title XI of FIRREA and a review of the various advisory opinions issued by the Appraisal Foundation since the implementation of USPAP. Meets the Washington state Department of Licensing Real Estate Appraiser certification prerequisite of 15 classroom hours on the topic.

R EST 206 Market Data Analysis (3)

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 Residential Appraisal Report Writing (3)

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 Introduction to the Study of Gender (5)

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. *Satisfies a social science requirement for AA degree.*

S SCI 177-179 Social Science Work Experience 1-3 (1-12)

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.*

S SCI 194 Special Topics - Social Science (1-5)

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 Nuu-Chah-Nulth Indians (5)

Examines the Nuu-Chah-Nulth Peoples of the Northwest Coast, as they are known from historical, ethnographic and informant sources. A field course in conjunction with the Clayoquot Sound Summer Program. *Cross-listed with AMES 211 and ANTH 211. PREREQUISITE: Eligible for ENGL& 101 or instructor's permission. Satisfies a social science requirement for AA degree. Formerly S SCI 215.*

Sociology (SOC)

SOC& 101 Introduction to Sociology (5)

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. Satisfies a social science requirement for AA degree. Formerly SOC 110.*

SOC 194 Special Topics - Sociology (1-5)

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. *Satisfies a social science requirement for AA degree.*

SOC& 201 Social Problems (5)

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. Formerly SOC 201.*

SOC 215 Survey of Criminology (5)

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 Sex and Gender in Society (5)

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, psychological, 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 requirement for AA degree.*

SOC 230 Sociology of Death and Dying (5)

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 Sociology of the Family (5)

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

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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 Juvenile Delinquency (5)
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 Crime and Justice (5)
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 298 Independent Study - Sociology (1-5)
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 Spanish for the Traveler 1 (3)
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 Spanish Oral Practice (4)
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: SPAN& 122, or two years of high school Spanish or equivalent or instructor permission. Satisfies a humanities/fine arts/English requirement for AA degree.*

SPAN 111 Spanish for Health Care Workers (5)
This introductory Spanish course 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.

SPAN 112 Spanish for Health Care Workers (5)
A continuation of SPAN 111, this introductory Spanish course 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: SPAN 111 with a grade of 2.0 or higher.*

SPAN 115 Hispanic Activities (1)
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. *Satisfies an activity requirement for AA degree.*

SPAN& 121 Spanish I (5)
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. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly SPAN 101.*

SPAN& 122 Spanish II (5)
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. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly SPAN 102.*

SPAN& 123 Spanish III (5)
Completion of basic grammar system grammar, vocabulary, reading, writing, and conversation. Course requires practice with lab materials. Fulfills the University of Washington College of Arts and Sciences graduation requirement. *PREREQUISITE: A grade of 2.0 or higher in SPAN& 122 or equivalent with instructor permission. The equivalent of SPAN& 122 is two years in high school with a grade of B or higher. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly SPAN 103.*

SPAN 194 Special Studies - Spanish (3-5)
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.*

SPAN& 221 Spanish IV (5)
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: 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 requirement for AA degree. Formerly SPAN 201.*

SPAN& 222 Spanish V (5)
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: 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 requirement for AA degree. Formerly SPAN 202.*

SPAN& 223 Spanish VI (5)
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: A grade of 2.0 or higher in SPAN& 222 or equivalent with Instructor's permission. Satisfies a humanities/fine arts/English requirement for AA degree. Formerly SPAN 203.*

SPAN 299 Independent Study - Spanish (1-5)
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: A grade of 2.0 or higher in SPAN& 222 or equivalent with instructor permission.*

Study Skills (ST SK)**ST SK 101 Study Skills for the Social Sciences (3)**

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 Study - Reading Techniques in Science (1)

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 Orientation to College (1-2)

Holds the key to a successful experience at GRCC. Introduces first year students, though not restricted to them, to valuable information about personal services, unique programs, and stimulating resources offered at GRCC. *This is a pass/no credit course.*

ST SK 106 College Survival (2)

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 College Success Strategies (5)

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 Independent Study - Study Skills (1-3)

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 Careers for the New Millennium (2)**

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.*

Welding (WELD)**WELD 103 Special Welding (3)**

Any welding process available at GRCC 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 Basic Blueprint Reading (3)

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 Basic Arc Weld and Flame Cutting (1-13)

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 Intermediate Welding (1-13)

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 Advanced Arc Welding (1-13)

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 Welding Work Experience 1-3 (1-12)

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 Special Welding Project 1 (1-13)

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 Special Welding Project 2 (1-13)

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 Special Welding Project 3 (1-13)

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.*

Water Supply Technology (WST)**WST 177 Water Cooperative Education (1-12)**

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 Water Distribution (3)

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, 100, 109, ENGL &101 or eligible for ENGL 100.*

WST 183 Water Sources (1)

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, 100, 109, ENGL&101 or eligible for ENGL 100.*

WST 184 Water Regulations (2)

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, 100, 109, ENGL&101 or eligible for ENGL 100.*

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WST 185 Water Treatment 1 (3)

Covers topics that include 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, 100, 109, ENGL& 101, or eligible for ENGL 100.*

WST 186 Water Treatment 2 (3)

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 Water Laboratory (2)

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 Independent Study - Water Supply (1-5)

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 Water Hydraulics (3)

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 Pumps and Pumping Systems (3)

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 Utility Worker Safety (3)

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 Disinfection and Chemical Feed Systems (3)

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 Water and Wastewater Applied Problems (3)

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 Drawings and Manuals (3)

Includes interpretation of maps, drawings, and operation and maintenance manuals as these activities relate to the water and wastewater technology field.

WTECH 188 Water and Wastewater Electrical (3)

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 Pre-Employment Seminar (3)

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.

Wastewater Technology (WWT)

WWT 172 Industrial Wastewater Instrumentation (1)

Covers basic concepts and industry practices regarding wastewater treatment instrumentation measuring systems and their associated control systems.

WWT 174 Industrial Wastewater Regulations (1)

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 Industrial Wastewater Treatment Processes 1 (2)

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 Industrial Wastewater Treatment Processes 2 (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 Wastewater Cooperative Education (1-12)

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 Wastewater Collection (3)

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 Municipal Wastewater Treatment 1 (3)

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, 100, 109 or ENGL& 101 or eligible for ENGL 100.*

WWT 186 Municipal Wastewater Treatment 2 (3)

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 Wastewater Laboratory (2)

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 Independent Study - Wastewater (1-5)

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.*

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GLOSSARY

Academic – Pertaining to a liberal arts program of study, as opposed to a professional 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 GRCC 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 professional/technical programs, generally in business and business-related fields.

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 Applied Science (AAS) – A degree designed for students in professional/technical programs, generally in health sciences, technical, and trades subjects.

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) – A degree for students pursuing a career in the field of business.

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) – A degree for students pursuing careers as secondary math or science teachers.

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.

Certificate of Completion (Cert) – Awarded in some professional/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 professional/technical field where course work is 44 credits or less, and generally does not include “Related Instruction” requirements.

College-Level Examination Program (CLEP) – Knowledge in specific areas gained through informal learning that is assessed by examination for traditional credit.

COMPASS – A computerized assessment for course placement of enrolling students that identifies a student's skill levels in math, reading, and writing. This is 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 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 professional/technical or academic program of study.

Entry Codes – Instructor permission codes that allow a student entry into a particular course or course section.

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 Educational Development (GED) – A program for adults who have not graduated from high school and want to earn a certificate of high school equivalency.

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.

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.

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 Community 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.

Professional/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.

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 professional/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 GRCC, 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 GRCC. Also, the determination by a four-year college as to which of your GRCC 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.

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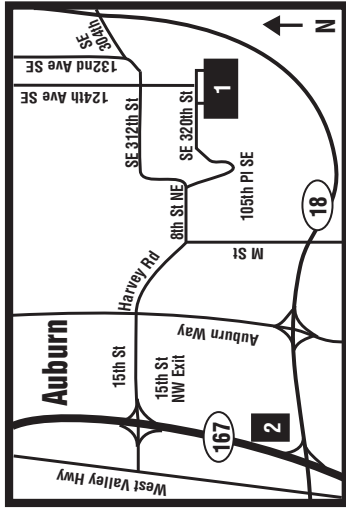
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1 Main Campus, Auburn— Located at 12401 SE 320th Street

Southbound

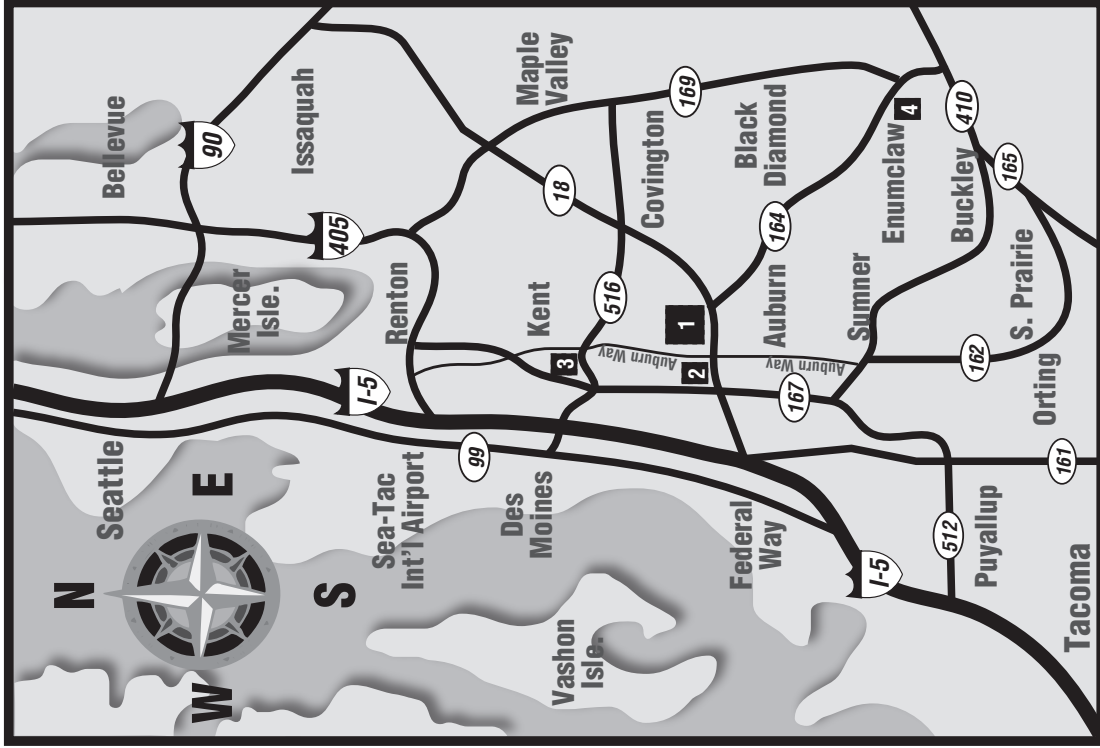
1. Take Hwy 167 South toward Kent / Auburn.
2. Take the 15th Street NW exit. Turn left onto 15th Street NW. (15th Street NW becomes Harvey Road.)
3. Turn left onto 8th Street NE.
4. Turn right onto 105th Place SE. Follow road to top of hill to SE 320th.

Northbound

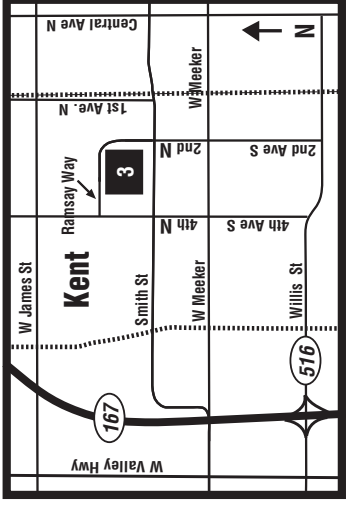
1. Take Highway 18 East toward Auburn / North Bend.
2. Take the SE 304th Street exit toward SE 312th Street.
3. Turn right onto SE 304th Street. (SE 304th Street becomes 132nd Avenue SE.)
4. Stay Straight to go onto 132nd Way SE. (132nd Way SE becomes SE 312th Street.)
5. Turn left onto 124th Avenue 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



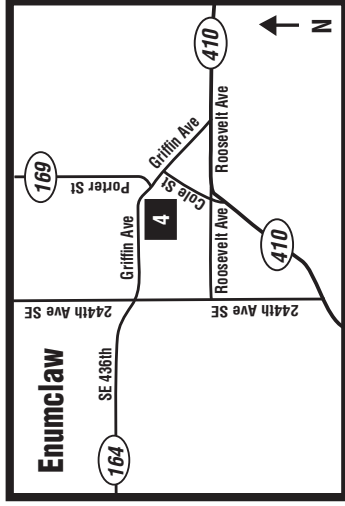
3 Kent Campus— Located at 417 Ramsay Way, Suite 112

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.

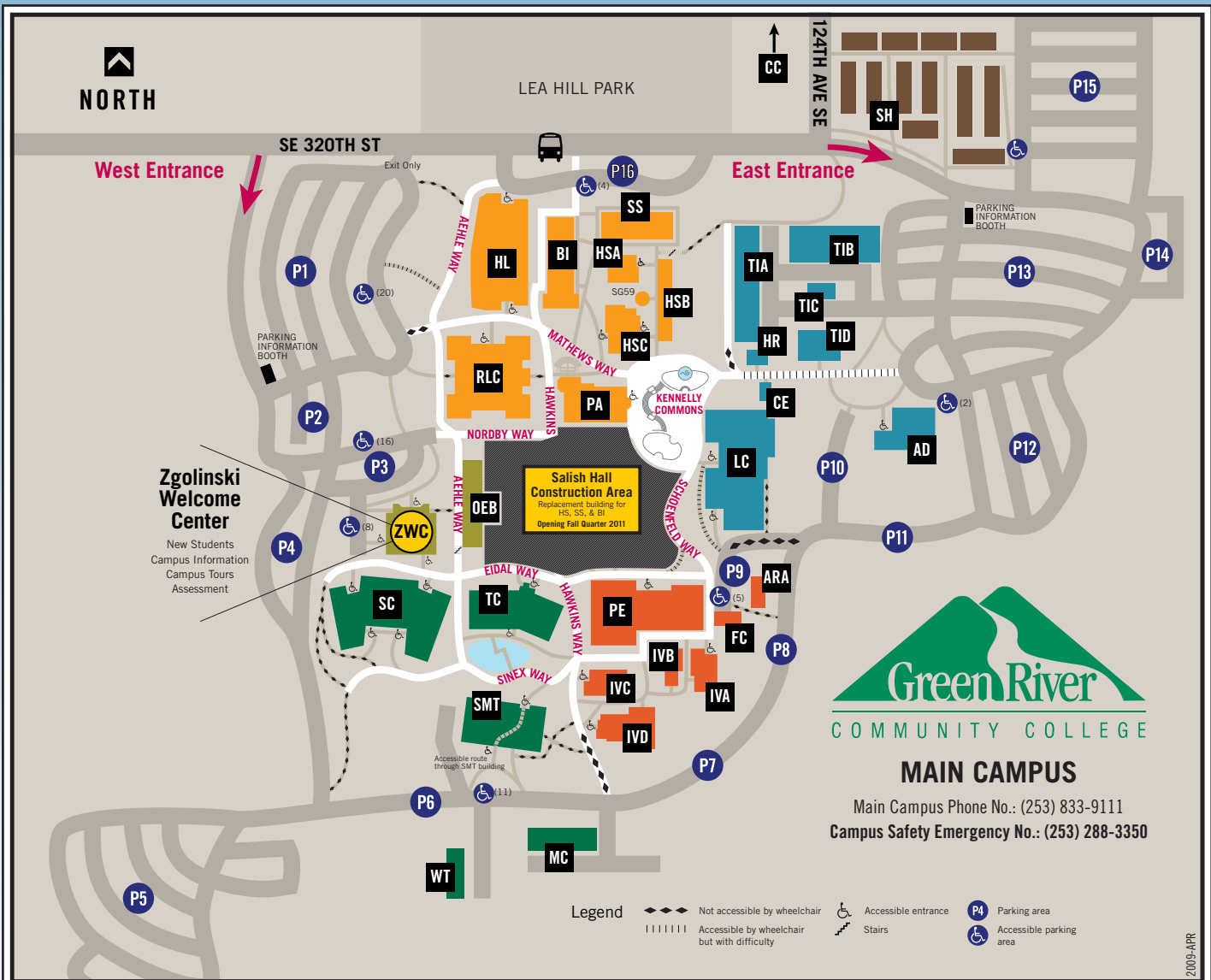


4 Enumclaw Campus— Located at 1414 Griffin Avenue

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.





Campus Destinations

Building Name	Abbr	Building Name	Abbr
Administration	AD	Occupational Education	OEB
Athletics Recreation Annex	ARA	Physical Education Building	PE
Bleha Center for the Performing Arts	PA	Rutkowski Learning Center	RLC
Business & Industry	BI	SMT Building	SMT
Child Care Center	CC	Social Science Building	SS
Continuing Education	CE	Student Housing	SH
Fitness Center	FC	Technology Center	TC
Holman Library	HL	Trades & Industries	TI
Human Resources	HR	Building A	TIA
Humanities & Social Science	HS	Building B	TIB
Building A	HSA	Building C	TIC
Building B	HSB	Building D	TID
Building C	HSC	Washington Environmental Training Resource Center	WT
Lindbloom Student Center	LC	Zgolinski Welcome Center	ZWC
Maintenance Center	MC		
Marv Nelson Science Learning Center	SC		
McIntyre International Village			
Building A	IVA		
Building B	IVB		
Building C	IVC		
Building D	IVD		

Popular Destinations

For...	Go to...	Abbr
Assessment & Testing Center	Zgolinski Welcome Center	ZWC
Bookstore	Lindbloom Student Center	LC
Campus Safety	Administration	AD
Campus Information & Tours	Zgolinski Welcome Center	ZWC
Cashier's Office	Lindbloom Student Center	LC
Career & Advising Center	Lindbloom Student Center	LC
Conference Center	Lindbloom Student Center	LC
CWU @ GRCC	Holman Library	HL
Disability Support Services	Lindbloom Student Center	LC
Diversity Services	Lindbloom Student Center	LC
Enrollment Services	Lindbloom Student Center	LC
Financial Aid Office	Lindbloom Student Center	LC
Helen S. Smith Gallery	Holman Library	HL
Math Learning Center	SMT Building	SMT
Project TEACH	Holman Library	HL
TRIO Student Support Services	Lindbloom Student Center	LC
Tutoring & Resource Center	Holman Library	HL
Washington State Center of Excellence for Careers in Education	Holman Library	HL
Workforce Education	SMT Building	SMT
Writing Center	Rutkowski Learning Center	RLC