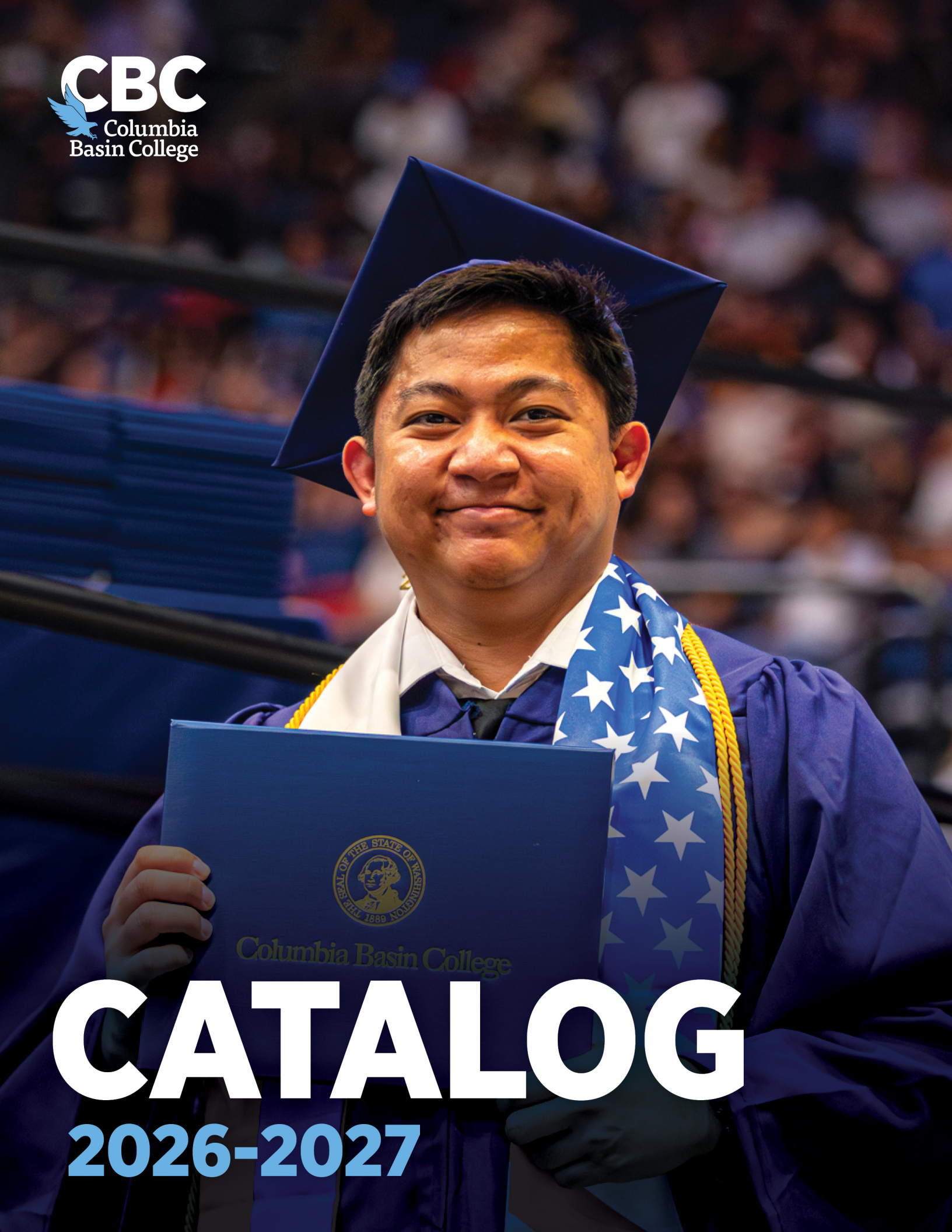

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Introduction

President's Welcome

Welcome to Columbia Basin College! Since 1955, CBC has been the gateway to higher education for students seeking affordable, high-quality education. Our mission is to serve all students equitably, and we're proud of our status as a federally-recognized Hispanic-Serving Institution (HSI).

At CBC, all students can succeed! Whether you are here to pursue a two-year degree, receive a certificate to begin a new career or earn a baccalaureate degree, we are dedicated to supporting your success.

On behalf of all our faculty and staff, I'm proud to welcome you to the CBC family.

Go Hawks!

Rebekah S. Woods, J.D., Ph.D.
President, Columbia Basin College

Mission, Vision and Values

Mission

Columbia Basin College inspires, educates and supports all students in an environment of academic excellence leading to the completion of degrees, certifications and educational transfers, while fostering meaningful employment, engaged citizenship and a lifelong joy of learning.

Vision

Columbia Basin College will be the educational home that transforms students' lives through economic and social mobility and strengthens the communities we serve through meeting the ever-changing educational needs of our region and state.

Values

Student Learning

Our first priority is to work collaboratively to ensure student learning, success and completion in an environment of open inquiry, respect, critical thinking and creativity. We strive to create community and belonging where students mature and develop intellectually, emotionally, ethically and physically both inside and outside of the classroom.

Culture of Excellence

We provide excellent teaching and services through a theory-driven and data-informed culture of innovation, collaboration, continuous improvement of performance and a commitment to professional growth and development for all employees.

Diversity, Equity and Inclusion

We celebrate diversity in all its forms and we believe that our many unique perspectives makes us stronger. Diversity among our team enriches our institution and our students' experience. We are dedicated to eliminating barriers to success through intentional and equitable efforts to provide quality learning opportunities.

Sustainability

We consciously practice and model broad-based sustainability for our students and our communities through the balancing of economic, societal and environmental factors when considering campus development of facilities, processes, programs and curricula.

Wellbeing

We create a healthy environment that encourages physical and emotional wellness and enjoyment of learning.

History of CBC

Columbia Basin College has served Benton and Franklin Counties for 70 years.

The first classes at CBC were authorized by the State Board of Education in May, 1955. Classes began in September, 1955 in temporary quarters at the former Pasco Naval Airbase.

The Pasco School District received title to more than 150 acres of land for the present campus site in Pasco. CBC's first permanent building (the V Building) was completed in 1957.

The Community College Act of 1967 separated the College from the Pasco School District, and CBC became the 19th community college district in the state of Washington.

CBC continually expands and renovates programs including the addition of the College's first applied bachelor's degree in 2010. The enrollment of the College has grown from 299 students in 1955 to more than 12,000 students per year today. CBC's current president, Rebekah S. Woods, has served the college since 2017.

Accreditation

Columbia Basin College is a member institution with the Northwest Commission on Colleges and Universities (NWCCU). Columbia Basin College's accreditation status is Accreditation Reaffirmed. CBC hosted its last comprehensive evaluation visit in April 2024. CBC's next evaluation is the Mid-Cycle report and visit in April 2027.

NWCCU is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation (CHEA). Inquiries regarding an institution's accredited status by the Northwest Commission on Colleges and Universities should be directed to the administrative staff of the institution. Individuals may also contact:

Northwest Commission on Colleges and Universities
8060 165th Avenue NE, Suite 100
Redmond, WA 98052
425-558-4224

CBC's accreditation reports can be found on the Accreditation webpage.

Research and Instructional Assessment

Columbia Basin College's commitment to its mission and goals requires conducting regular self-evaluations of progress in order for CBC to help students succeed. Student feedback at various points in students' educational journeys are essential parts of this evaluation process. Students may be asked to cooperate in voluntary surveys, interviews, focus groups and other data collection efforts by the College to further this self-evaluation.

The goals of CBC are directed to student success within a framework of equity and inclusiveness, seeking always to improve the whole student experience and represent it as faithfully as possible to campus, using the best theory and evidence base combined with respect for student experience, while protecting confidential data. Institutional Research does not release sensitive or confidential information about individuals without consent and, wherever possible, avoids attaching names to personal data during analysis.

Institutional Student Learning Outcomes

Students who graduate from Columbia Basin College will be able to identify and demonstrate their knowledge in a variety of general education and specialized areas. Learning outcomes exist at the course, program and institutional levels. Course outcomes are what students are expected to know or do by the end of a course and are listed in the syllabus. Program outcomes identify what students will learn after completing multiple courses that make up a program of study and are available on program webpages. Institutional learning outcomes will be achieved by all degree-earning students by the end of their time at the College.

CBC's Institutional Student Learning Outcomes are:

Think Critically

- Understand, analyze and evaluate the elements of one's environment and one's habits of thought
- Conceptualize alternatives to both

Reason Quantitatively and Symbolically

- Perform accurate calculations
- Manipulate equations
- Interpret quantitative information
- Apply and analyze relevant numerical or symbolic data

- Present results to support conclusions

Communicate Effectively

- Use spoken and written language to express opinions, discuss concepts and persuade an audience
- Synthesize ideas and supporting information to create effective messages

Apply Information Tools and Resources

- Accurately assess information needs
- Select appropriate information tools and resources and use them efficiently
- Evaluate, manage and use information effectively and responsibly

Develop Cultural Awareness

- Respect self and others
- Explore and appreciate different cultures in an increasingly diverse, global community
- Challenge culture-bound assumptions

Master Program Learning Outcomes

- Become familiar with a body of knowledge
- Demonstrate ability to know or do the stated program learning outcomes, which are developed by each department and program and assessed annually

Locations

Columbia Basin College has grown and expanded throughout Benton and Franklin counties since its inception in 1955. The Naval Airbase at the Pasco airport housed most of the programs for the first two years of the College. CBC opened its first new building in fall, 1957 on the current, 150-acre Pasco campus.

The other Pasco locations include the X Building, on 20th Avenue, which houses the Early Childhood Education and Bachelor of Applied Science in Teacher Education programs.

CBC also serves the community in other locations across the bi-county area. In 1974, the College constructed its first buildings in Richland near the Richland Public Library on Northgate Avenue. More recently, the Richland Health Science Center and the Medical Science Center were built nearby to support CBC's health science programs.

For maps, driving directions and parking information, visit the Campus Maps webpage.

CBC Foundation

The Columbia Basin College Foundation was established in 1984 to raise funds to support students pursuing their education at CBC. What initially began as a way to build scholarships for students, has grown to support college initiatives that enhance the educational experience, enrich faculty and lead to student success. The Foundation is committed to helping the College transform the student experience, connect with the larger community and to seek opportunities for sustainable support. The CBC Foundation is led by a volunteer board of directors that represents a broad spectrum of alumni, business, agriculture, civic and professional leaders. For more information about the CBC Foundation, visit the CBC Foundation webpage.

Financial Information

Student Status for Financial Aid

Full-time student: student registered for 12 or more credits per quarter.

Three-quarter-time student: student registered for 9 to 11 credits per quarter.

Half-time student: student registered for 6 to 8 credits per quarter.

Less-than-half-time student: student registered for 1 to 5 credits.

Residency Requirements

A student's Washington state residency determines whether students pay resident or non-resident tuition while attending Columbia Basin College. Students seeking reclassification must submit documentation if they would like their status to be reevaluated. Documentation should be dated one year and one day prior to the start of the quarter for which a student is applying for residency status.

All residency documentation must be received prior to the 30th calendar day of the quarter for which students are seeking reclassification. Documentation received after the 30th calendar day will be considered for the following quarter and is not retroactive for prior quarters. For further information, visit the Residency webpage.

Tuition & Fees 2026-27

Rates are subject to change. Tuition is set by the State Board for Community and Technical Colleges, which acts upon legislative authority.

Table is for undergraduate rate (or lower-level courses) only.

	Washington Resident	**U.S. Non-WA Resident**	**Non-U.S. Resident & International F-1 Visa**
Per Credit Charges:			
State Tuition & Fees			
Credits 1 to 10	136.14	203.20	350.12
Credits 11 to 18	67.18	75.93	75.93
Credits 19+	122.14	184.30	336.12
CBC Comprehensive Fee	4.00	4.00	4.00
CBC Instructional Support Fee	9.00	9.00	9.00
CBC Technology Fee	6.89	6.89	6.89
Average Per Credit:	**156.03**	**223.09**	**370.01**
Per Quarter Charges:			
AUD, HUB, Safety & Security, Rec Center Fee	82.50	82.50	82.50
Total Charges per Credit:			
1	238.52	305.59	452.51
2	394.56	528.68	822.52
3	550.59	751.77	1192.53
4	706.62	974.86	1562.54
5	862.65	1197.95	1932.55
6	1018.68	1421.03	2302.56
7	1174.71	1644.12	2672.57
8	1330.74	1867.21	3042.58
9	1486.77	2090.30	3412.59
10	1642.80	2313.39	3782.60
11	1729.87	2409.21	3878.42
12	1816.94	2505.03	3974.24
13	1904.01	2600.85	4070.06
14	1991.08	2696.67	4165.88
15	2078.15	2792.49	4261.70
16	2161.22	2884.31	4353.52
17	2244.29	2976.13	4445.34
18	2327.36	3067.95	4537.16
19	2465.39	3268.14	4889.17
20	2603.42	3468.33	5241.18
21	2741.45	3668.52	5593.19
22	2879.48	3868.71	5945.20

CBC's BAS program costs may vary; please visit the Tuition and Affordability webpage for program-specific tuition and fees.

The above schedule of tuition and fees includes comprehensive, instructional support and technology fees as well as special fees levied by the Associated Student Body of Columbia Basin College. Special course and/or laboratory fees may apply to certain courses and result in additional charges. See course materials for details.

Refund Policy

CBC will refund tuition and refundable fees if official withdrawal from the College or course(s) occurs within the specified timeframe listed below. Certain fees are non-refundable or refundable only if withdrawal occurs prior to the first day of instruction. The first day of instruction is defined as the first day of scheduled classes for the quarter. Instruction days are Monday through Friday. Calendar days are all days including weekend days and holidays.

Financial Information

REFUNDS	CBC will refund tuition & refundable fees if official withdrawal occurs:	
Full Sessions	**up to 100% REFUND** (on or before)	**up to 50% REFUND** (on or before)
Fall, Winter, Spring	5th instructional day of the quarter	6th day of the quarter and within first 20 calendar days
Summer	3rd instructional day of the quarter	4th day of the quarter and within first 15 calendar days
Mini-Sessions	**up to 100% REFUND** (on or before)	**up to 50% REFUND** (on or before)
Half-quarter courses	2nd day of the session	3rd day of the session and within first 10 calendar days
Four-week courses	2nd day of the session	3rd day of the session and within first 7 calendar days
Three-week courses	1st day of the session	2nd day of the session and within first 5 calendar days
Two-week courses	1st day of the session	2nd or 3rd day of the session
One-week or less courses	Before 1st day of the session	On 1st day of the session

Refund Exceptions

Non-Refundable Fees

The Auditorium/HUB/Safety & Security/ Recreation Center fee, per-credit comprehensive fee, lab fees and any additional specialized course and class fees are not refundable unless withdrawal occurs prior to the first day of instruction.

Small Balance Refund Amount

No refund checks will be processed for credit balances that are less than $5. These refunds are held until they are above $5, or applied to future balances.

Special Courses

The refund policy may not apply to contract classes, continuing education classes, workshops or other courses on special schedules.

Student Balance and Collections Process

All student accounts are required to be paid in full each quarter by tuition deadline or within 24 hours if enrollment takes place after tuition deadline. It is the student's responsibility to ensure that their account is current and that payments are made by the published deadlines. Registration for subsequent quarters will be restricted and accounts may be held if previous balance is not paid in full.

If a student fails to make payments and their balance is past due, their account may be forwarded to an outside collection agency.

Student Financial Responsibility Agreement (SFRA)

The Student Financial Responsibility Agreement (SFRA) is a required agreement that outlines financial obligations and responsibilities while attending Columbia Basin College and is completed each year in ctcLink by selecting "Holds."

Most students enrolling in courses that charge tuition and/or fees will need to complete the SFRA before registering for classes for the upcoming academic year. Some students may be exempt; this includes those who are younger than 18 years old and certain populations only taking Continuing Education courses.

For further information, visit the SFRA webpage.

Financial Aid

Financial Aid personnel assist Columbia Basin College students and their parents with finding funding for basic educational costs. Consumer information is available on the Student Consumer Information webpage. Financial aid programs at CBC follow policies and philosophies established nationally, statewide and institutionally. More information about the financial aid process and financial aid programs available to CBC students can be found on the Financial Aid webpage. Students receiving any type of financial aid should visit Hawk Central for specific questions about adding, dropping or withdrawing from classes before taking any such action. Federal and State regulations supersede CBC's refund policy. Warning: withdrawal from the College may result in the student owing amounts to Federal and State financial aid programs ***and*** to CBC.

How to Apply

Students apply for financial aid by completing a Free Application for Federal Student Aid (FAFSA) on the FAFSA website. FAFSA applicants must be U.S. Citizens or eligible non-citizens (i.e., permanent residents). Students who cannot complete a FAFSA due to not meeting citizenship requirements, but who are Washington residents, may apply for Washington state financial aid funding by completing the WA Application for State Financial Aid (WASFA) on the WASFA website. FAFSA/WASFA applications are available every year on October 1. Students are encouraged to apply between October and January prior to the school year they wish to attend. To allow for processing time and financial aid funds to be available by the tuition due date, the FAFSA/WASFA and any other required financial aid forms must be submitted to Financial Aid/ Hawk Central by:
Fall Quarter — April 15
Winter Quarter — October 15
Spring Quarter — January 15
Summer Quarter — April 15

Eligibility Requirements

FAFSA applicants must:

- Be a U.S. Citizen or an eligible non-citizen
- Be determined to have financial need based upon congressional methodology (except for Unsubsidized Federal Direct Loan and PLUS loans)
- Have a high school diploma, GED® certificate or meet home school requirements
- Be seeking one of the eligible degrees or certificates available at CBC
- Not owe a repayment on a previous federal student grant or be in default on a federal student loan
- Be enrolled for the eligible number of credits and be maintaining satisfactory

progress according to the Financial Aid Satisfactory Academic Progress Policy available on the Satisfactory Academic Progress webpage; previous academic progress at CBC will be considered even if the student was not receiving financial aid at that time
- Not be receiving financial aid at another institution at the same time
- Sign a statement on the FAFSA stating that student aid will be used only for educational purposes

WASFA applicants must:

- Have graduated from high school with a diploma, earned a GED® or earned a diploma equivalent
- Be a Washington state resident — lived in Washington for at least one year (12 consecutive months) before enrolling at CBC
- Be determined to have financial need based upon information provided on the WASFA
- Be seeking one of the eligible degrees or certificates available at CBC
- Not owe a repayment on a previous Washington state student grant
- Be enrolled for the eligible number of credits and be maintaining satisfactory progress according to the Financial Aid Satisfactory Academic Progress Policy available on the Satisfactory Academic Progress webpage; previous academic progress at CBC will be considered even if the student was not receiving financial aid at that time
- Not be receiving financial aid at another institution at the same time

Financial Aid Programs

Students will be considered for all aid programs for which they are eligible and for which funding is available. Financial aid programs fall into four categories: grants, scholarships, loans and employment.

Grants

Pell Grant
Federal grant program for undergraduate students with financial need.

Supplemental Education Opportunity Grant
Federal aid program for students with exceptional need. Must be eligible for a Pell Grant.

Washington College Grant
Washington state program for resident students who meet financial criteria and are enrolled in at least three credits.

College Bound Scholarship
Washington state program that guarantees state financial aid for resident students who applied for this scholarship in middle school, currently meet financial need and academic criteria and are enrolled in at least three credits.

Columbia Basin College Grant
A state-funded institutional grant for resident students with demonstrated need.

Opportunity Grant
A state-funded grant for residents who are enrolled in an eligible program of study and meet the financial need criteria. For more information, visit the Opportunity Grant webpage.

Early Achiever's Opportunity Grant
A state-funded grant for eligible residents who are enrolled in the Early Childhood Education program.

Scholarships

Scholarships are awarded by organizations based on a variety of criteria. Visit the Scholarships webpage for details.

Loans

Federal Direct Subsidized Loan
Federal need-based loan program with deferred payment and low interest (rate is set annually). Must be enrolled in at least six credits. Currently, the maximum amount is $3,500 for first-year students and $4,500 for second-year students. If accepted into one of CBC's bachelor's degree programs, the maximum amount for third- and fourth-year students is $5,500.

Federal Direct Unsubsidized Loan
Non-need-based loan for students. Must be enrolled in at least six credits. Interest is charged from the time the loan is disbursed.

Federal Plus Loan
Non-need-based federal loan program for parents of undergraduate, dependent students.

Alternative Loan
Non-need-based private loans based on criteria determined by individual lending institutions.

Types of Student Employment at CBC

On-Campus

- Federal Work Study
- CBC Non-Work Study
- Athletic Scholarships through the Athletic Department
- Summer Student Employment

Off-Campus

- State Work Study

While State Work Study is non-CBC employment, it is an opportunity for CBC students to work off-campus for employers in the community, and in jobs related to the student's major and/or career goals. The Financial Aid office assists student workers interested in placement for off-campus employment, though students apply through the CBC online application system. For more information, or to apply, visit the Student Employment webpage.

Criteria for Work Study
(Refer to Financial Aid Programs for more detail)
Student workers under Federal or State Work Study must be enrolled in at least six degree-required credits during each quarter of employment (fall, winter and spring). Student workers must be enrolled in at least five degree-required credits during summer quarter.

Worker Retraining

A state-funded tuition assistance program for eligible students. Priority is given to students who are currently receiving unemployment benefits or who have exhausted those benefits within the last four years. See the Worker Retraining section under Student Resources in this catalog for specific details or go to the Worker Retraining webpage to determine eligibility.

Veterans Benefits

Veterans, service members and family members eligible to use educational benefits from the Department of Veterans Affairs must meet with the Veterans school certifying official located in the H Building on the Pasco campus. To schedule an appointment, call 509-542-4880 or email veterans@columbiabasin.edu.

Veterans, service members and family members may be eligible for a state tuition waiver. Please contact the V.E.T.S. Center to learn more.

Admissions

General Admission to CBC

Admission Information

Columbia Basin College maintains an open-door admission policy and grants admission to applicants who are at least 18 years of age and/or have graduated from high schools accredited by a regional accrediting association or have a GED® certificate.

CBC has four quarters: fall, winter, spring and summer. Students may begin any quarter.

High school students who are juniors or seniors may be eligible to attend CBC through the Running Start program. For more information and eligibility requirements, please visit the Running Start webpage.

High school students who are in the 9th or 10th grade, who have an unusual or extenuating educational need, may be considered for underage admission. Contact the Student Records office for the underage admissions policy and procedure.

Admission to CBC does not guarantee admission to all degree or certificate programs. In addition, some programs have special applications and admission procedures and limited entry dates. Students should consult the individual program and/or department for admission requirements.

How to Apply for General Admission

Applicants must complete and submit an Application for Admission by the quarterly deadline. When an applicant's file is complete, the applicant will receive notification of acceptance via email with further enrollment instructions.

Processes such as admission to certain programs may be delayed without transcripts from prior schools.

High school transcripts generally are not required from applicants 18 years of age or older. However, some degree programs require a high school transcript as part of the admission criteria and for evaluation of prerequisites. Refer to the individual program and/or department for specific program requirements.

Placement

Placement into math, reading and English is required for degree- and certificate-seeking students. Columbia Basin College offers multiple options for students to meet placement requirements. For more information, please visit the Placement webpage. Additionally, students who have prior college-level English or math classes may submit an official transcript(s) to Student Records to determine placement results.

If you need accommodations for placement testing based on a disability, please contact Disability Support Services at 509-542-4412 or the Washington State Relay Service for the Deaf and Hard of Hearing at 800-833-6384.

Admission to CBC's Bachelor's Degree Programs

Applicants who wish to pursue a Bachelor of Applied Science degree must satisfy one of the following conditions at the time of program start date to become eligible:

- Have earned at least an associate (AA, AS, AAS) degree from an accredited institution (see the list of approved accrediting agencies under the Transfer Information section of this catalog)
- Have completed a minimum of 90 college-level credits from an accredited institution (see the list of approved accrediting agencies under the Transfer Information section of this catalog)

Applicants who wish to pursue a Bachelor of Science in Nursing (RN-BSN) degree must have completed an associate degree in Nursing. Applicants who wish to pursue a Bachelor of Science in Nursing (LPN-BSN) degree must have completed a Licensed Practical Nurse certificate or degree.

Check with the program for specific admission requirements and prerequisites. Program information is available on the BAS webpage.

International Student Admission

Columbia Basin College welcomes qualified international students.

Admission requirements:

- International Student Admission Application and additional documentation
- Official language proficiency scores
- Copy of high school diploma
- Official college/university transcripts, if applicable

In addition to the above requirements, international students transferring from another school in the United States must also submit the following:

- Official college/university transcripts
- Copy of all previously issued I-20 forms
- CBC F-1 Transfer-In form

If all the admission requirements are satisfied and the student is admitted to CBC, an I-20 for F-1 student status will be issued.

International students must enroll for 12 credits each quarter and maintain a 2.0 GPA or better. International students are allowed to take one quarter off per academic year, designated as summer quarter at CBC. Visit the International Student webpage for more information if you are interested in starting summer quarter.

All international students are required to have health insurance. Students must purchase insurance through Washington State Colleges or provide proof of equivalent insurance from their own country.

International students are not eligible for federal/state student financial assistance. They may be eligible for some scholarships and private loans. Opportunities for on-campus employment are extremely limited.

International students are not eligible to work off-campus except in some very special circumstances; they should assume no money or employment will be available from the College while they are attending CBC.

Further information and appropriate forms may be obtained on the International Student webpage.

Admission to ELA (English Language Acquisition)

The English Language Acquisition (ELA) program provides six levels of English language instruction to immigrants and refugees for a tuition fee of $25 per quarter, but students may be eligible for a waiver of the tuition fee. Students are tested to determine their speaking, listening, reading and writing skills prior to being placed into an appropriate class. Depending on levels and time of day, classes are held on the main Pasco campus. CBC offers courses focused on workplace skills and provides support to ELA students enrolled in vocational programs. Students under 19 years of age are required to obtain permission from their high school in order to participate in ELA classes at CBC. For more information, contact the Transitional Studies Division at 509-542-4701.

Admissions

Admission to High School Programs

Admission to Running Start

Running Start is a program created by the Washington State Legislature to provide high school juniors and seniors an opportunity to enroll in college classes that will meet high school graduation requirements, as well as apply toward a college degree. Students are eligible for up to 19-20 tuition-free college credits per quarter based on how many classes they are taking at their high school. They are, however, required to pay lab and comprehensive fees, books, supplies and transportation costs. Students who take classes below college level are charged full tuition and fees.

To be admitted into the program, students can utilize one of CBC's placement options and test or place into college-level reading, English or math. Students who qualify should meet with their high school counselors to determine high school graduation requirements. Running Start students who fall below a cumulative GPA of 2.0 must enroll in HDEV 102 during the subsequent quarter.

Eligible Running Start students must complete and submit:

- A CBC Running Start admission application (after student qualifies)
- A Running Start Enrollment Verification form (every quarter)

Admission to High School Completion Program

The High School Completion program is offered for individuals 19 years or older and for those whose high school class has graduated. The purpose of this program is to help students complete their high school education by earning a diploma.

Applicants must submit a completed Application for Admission with all official high school transcripts attached and take the placement test. For more information, contact the Transitional Studies Division at 509-542-4701.

Anyone whose high school class has not graduated, who has not earned a GED® or who is between 16 and 18 years of age, must submit a High School Release form.

CTE Dual Credit & College in the High School

CTE Dual Credit and College in the High School programs allow high school students the opportunity to earn college credit while meeting a high school graduation requirement at the same time. Students participate in approved classes in their home high school or at Tri-Tech Skills Center. The courses are taught by qualified high school teachers who work closely with faculty mentors to ensure the high school curriculum is of college rigor and aligns to a similar course taught on campus.

Columbia Basin College currently offers the CTE Dual Credit program locally and accepts transfer credit from other community colleges and universities who offer the College in the High School program. Students can accelerate their academic and career pathways through the use of these programs. CTE Dual Credit-approved courses are career and technical education courses and College in the High School courses are academic. Both programs offer students rigorous and challenging coursework that will assist them in their transition to postsecondary education and training.

Upon successful completion of meeting all CTE Dual Credit eligibility requirements, the equivalent CBC course will be transcribed as "Credit for Prior Learning" in accordance with the guidelines established by the Washington State Board for Community and Technical Colleges, to the students' transcript with the College's course title and number, just as it appears in the catalog. Grades will be awarded for college credit (and posted to the college transcript) using CBC's grading scale and may be slightly different than the high school grade awarded. CTE Dual Credit and College in the High School credits awarded by CBC count toward the minimum residency requirement. For students transferring credit earned through College in the High School from other institutions, their credit will be evaluated by the Student Records office and posted to their CBC transcript.

For more information about either dual-credit program, please contact the Director for K-12 Partnerships at 509-542-4640.

Admission to ABE/GED®

(Adult Basic Education or General Educational Development)

The Adult Basic Education or General Educational Development (ABE/GED®) program offers classes to qualifying students who left high school without receiving a diploma, or are in need of improved skills prior to enrollment in college-level classes for a tuition fee of $25 per quarter. Students may qualify for a tuition waiver. Students are assessed and attend a program orientation prior to being placed in a class. Classes are held on the main Pasco campus and at various sites around our service district. Students under 19 years of age are required to obtain permission from their high school in order to participate in ABE/GED® classes at CBC. For more information, contact the Transitional Studies Division at 509-542-4701.

Candidates requiring accommodations for the GED® examination are encouraged to contact the Pearson Vue Accommodations Team at 877-392-6433 or email accommodations@GEDtestingservice.com. Individuals participating in GED® classes at CBC who require accommodations may contact Disability Support Services at 509-542-4412 or the Washington Relay services for the Deaf and Hard of Hearing at 800-833-6384.

Admission to High School Academy

The High School Academy (HSA) program is offered for students ages 16 to 20 years of age who have disengaged with their high school or are at risk of disengagement. HSA is a re-engagement program for at-risk/disengaged youths who seek to complete a high school diploma.

Interested students must submit a completed HSA referral packet to the participating school district of Kennewick, Richland, Pasco, Finley or Columbia Burbank. Included in the packet is a CBC Application for Admission that must also be completed.

Once the student referral packet is processed and approved, the student will be expected to:

- Attend an interview with the Dean for Transitional Studies and an HSA faculty member
- Submit an official transcript
- Meet with the Dean for Transitional Studies to complete a transcript evaluation
- Complete the placement test for placement purposes
- Attend a mandatory orientation

For general information about the HSA program, contact the HSA office at 509-542-4442.

Admission to High School+ (HS +)

High School+ (HS+) is a competency-based high school equivalency program for adult learners age 18 and older who do not have a high school diploma or equivalency certificate. For the quarterly tuition of $25, students work to demonstrate competencies in reading, writing and math and complete needed credits. The quarterly tuition of $25 may be waived for some students.

To participate in the program, students must submit their official high school transcripts to the Transitional Studies Division and complete the required assessments. Students also complete an intake interview prior to admittance. For more information, contact the Transitional Studies Division at 509-542-4701.

Admission to Open Doors

Open Doors is a free high school completion program for eligible youth 16 to 20 years of age who are deficient in high school credits. Students enroll in Transitional Studies classes to work toward earning a GED® and/or high school diploma. Open Doors is a competency-based program, which is modeled after the High School+ program. Students meet graduation requirements by their home school district through high school coursework and/or prior learning gained from work and life experience. The student's home high school awards credit based on competencies earned at Columbia Basin College Open Doors and issues the high school diploma. For more information, contact the Transitional Studies Division at 509-542-4701.

Gold Card Admission

A reduced tuition rate is available to individuals 60 years or older who wish to take classes without credit (audit). Registration is available at Hawk Central.

Registration:

- Gold Card members may register on the third day of the quarter on a space available basis and may not overload a class.
- Gold Card members may not register for class(es) at the state tuition rate in order to reserve a space and then change to the reduced Gold Card tuition rate. Gold Card members registering at the state tuition rate will be charged full tuition and WILL NOT qualify for the Gold Card tuition rate for the course ID that was reserved for the current quarter.
- Gold Card members are eligible to register for up to two courses per quarter.
- Gold Card members must be Washington state residents.

Fees:

- Gold Card members will pay all applicable course fees, lab fees and other charges as appropriate.

For more information, please visit Hawk Central in the H Building.

Registration

Registration Procedures

The registration process includes course selection, enrollment and payment of tuition and fees. Currently enrolled and returning CBC students are assigned a registration appointment time based on the number of cumulative credits they have earned. First-time students to CBC may register during open enrollment as outlined in the academic deadlines. In some instances, registration holds may apply. Students must be registered in classes in order to attend. The maximum number of credits a student may enroll in is 20 per quarter. Registration for more than 20 credits requires approval from your completion coach. Email advising@columbiabasin.edu for more information.

Any degree-seeking student or any student wishing to register for a math or English course or a course with a math or English prerequisite must complete a placement option. Transfer students who have completed math and English from an accredited college will not be required to complete placement, provided an official transcript is submitted that documents the necessary prerequisites.

Students may rearrange their class schedule within the first two days* of the quarter. Schedule changes made after the second day of the quarter require instructor permission. Students may withdraw from a class through the 40th day* of the quarter (27th day* of summer).

Refer to the Financial Information section for details on Tuition and Fees and the Refund Policy.

Classes with dynamic dated sessions (which are classes that don't follow the academic deadlines) may have different deadlines, check class information for further details. Deadlines for all classes on a student's schedule may be found in MyCBC > Student Center > Manage Classes > Enrollment Deadlines.

Repeat Course Rule

Students may not register more than three times for the same course at CBC — this is defined as two repeats in addition to the original course taken. A course applies to the repeat rule if the student receives a grade or withdrawal (W or WA) for the course on their transcript (SBCTC Course Repeat Policy 5.30.25). Students should consult with a completion coach for further questions.

Priority Registration for Veterans

CBC provides current and new eligible veterans, national guard members, active duty military members, their spouses, domestic partners and dependent students the ability to register for classes before the general student population. This is based on military status documentation provided to the School Certifying Official in the V.E.T.S. Center. Further information may be obtained on the Veterans webpage.

Student Orientations

All new degree- and certificate-seeking students who have earned zero credits are required to complete Student Orientation to Advising and Registration (SOAR) as part of the getting started process. SOAR is offered prior to each quarter. Students learn about various resources on campus, general information about CBC degrees and how to register for classes.

First Year Introduction (FYI)

First Year Introduction (FYI) is a one-credit course required for all degree- and certificate-seeking students. FYI assists new students entering CBC who have earned zero credits (credits must be from an accredited college or university to count; see the list of approved accrediting agencies under the Transfer Information section of this catalog) by providing a thorough introduction to college and to CBC. Students are required to register for and complete FYI before beginning their first quarter at CBC. While not mandatory for transfer students, this course offers valuable insights into the resources available at Columbia Basin College, making it beneficial to partake in.

Student Identification Card

Students enrolled at Columbia Basin College should obtain a student identification card. A student ID card may be required to access student resources and to participate in College and community activities. Further information is available on the Student ID Card webpage.

MyCBC Information System

columbiabasin.edu/mycbc

MyCBC is an online student information system where students may perform the following actions:

- Check registration access times
- Register for classes
- Make schedule changes
- Update address and phone numbers
- Access class schedules, degree audits, financial aid data, grades and transcripts
- Pay tuition online

Credit Hours

In general, a lecture class that meets for one hour per week for one quarter will earn the successful student one credit; a lecture class that meets five hours per week for one quarter will earn the student five credits.

Laboratory and certain other courses vary from this pattern. The quarter hours of credit for each course are shown after the course titles in the Courses section of this catalog.

Students earn credit only for courses in which they are officially registered for credit. If a course is audited, credit will not be earned.

Withdrawal Procedures

Student-Initiated Withdrawals (W)

If a student wishes to withdraw from all or individual courses, it is their responsibility to do so by the deadline. Students must submit a registration form to Hawk Central or withdraw online by the published deadline. Students may withdraw from courses with no record on their transcripts if the withdrawal has been processed on or before the 10th day* of the quarter (8th day* of summer). Students withdrawing from courses after the 10th day* (8th day* of summer) but on or before the 40th day* of the quarter (27th day* of summer) shall have a W recorded on their transcripts.

**Classes with dynamic dated sessions (which are classes that don't follow the academic deadlines) may have different deadlines, check class information for further details. Deadlines for all classes on a student's schedule may be found in MyCBC > Student Center > Manage Classes > Enrollment Deadlines.*

Students are encouraged to meet with a completion coach and to inform instructors prior to withdrawing. Students receiving financial aid are strongly advised to speak with a specialist in Hawk Central prior to withdrawing, as withdrawals may negatively impact their ability to receive financial aid in the future and/or may require repayment of money received from a financial aid award. It is the responsibility of the student to be fully aware of the effects of withdrawing, and the College assumes no liability for financial or other adverse actions as a consequence of withdrawing.

Final withdrawal deadlines are based upon 75 percent of the scheduled class meetings. Students who stop attending classes without officially withdrawing will be issued a grade based on the work completed and any other assessments provided by instructors. However, exceptions to the withdrawal deadline can be made for extenuating circumstances. Refer to the Petition for Exception to Deadline Policy (PED) for further information.

College-Initiated Withdrawals

10th Day Roster Withdrawal

Faculty members are required to review each class roster and indicate which students have never attended the class for which they are registered. Any student who has not participated in academic activity (e.g. attending in-person class, participating in an online discussion, taking a quiz or viewing a lecture) during the first 10 days (8 days in summer) of the class will be withdrawn.

- For in-person classes, this would apply to students who have never attended the class during the first 10 days (8 days in summer) of the class.
- For classes taught entirely online, "never attended class" is determined by engaging in academic activity (e.g. participating in an online discussion, taking a quiz or viewing a lecture) during the first 10 days (8 days in summer) of class. Solely logging in to Canvas or asking a logistical question of the instructor does not count as attending the online class.
- For hybrid/hyflex classes, this would apply to students who have attended neither the face-to-face portion nor participated in academic activity (e.g. participating in an online discussion, taking a quiz or viewing a lecture) in the online portion of the class during the first 10 days (8 days in summer) of the class.
- 10th Day Roster Withdrawals are refunded at 100%.

The classes from which students are withdrawn during the 10th Day Roster Withdrawal process will not appear on their transcript and no grades will be assigned for those classes.
Note: the 10th day (8th day of summer) is determined by the length of the quarter or class and may be different for dynamic dated classes outside the standard quarter dates.

Faculty Withdrawal after the 10th day (WA)

Prior to the 40th day of the quarter (27th day of summer), a faculty member may withdraw a student from their class for excessive absences, as described in their syllabus. Any student withdrawn from a class for excessive absences will receive a WA on their transcript to indicate a College-Initiated Withdrawal. Faculty Withdrawals are not eligible for refunds.

Administrative Withdrawal (WA)

On rare occasions, a student may be withdrawn at the recommendation of the appropriate Vice President for the following reasons: disciplinary actions, academic performance decisions or health and safety issues. Any student withdrawn from a class for administrative withdrawal will receive a WA on their transcript to indicate a College-Initiated Withdrawal. Administrative Withdrawals are not eligible for refunds.

Withdrawals from Linked Classes

Columbia Basin College occasionally links classes in our system, which requires students to enroll in multiple courses at the same time. This is done because the content is connected in a learning community or to meet a requirement that a student needs to be successful.

Students who withdraw or are withdrawn from any classes that are linked to another course, part of a corequisite or concurrent requirement, or part of a learning community, will be withdrawn from all classes that are linked. This may be initiated by the student or part of an official CBC process to withdraw students.

Transfer Information

Transcripts

A Columbia Basin College official transcript is a record of a student's permanent academic work at CBC. It bears the Washington state seal and the Registrar's signature. In compliance with the Family Education Rights and Privacy Act of 1974 (FERPA), a transcript of grades will be sent to a college, university or other agency only upon the student's written request. Students may order and pay for official transcripts via the College's Transcript webpage. Transcripts will not be released to a third party without written permission of the student. Unofficial transcripts are available at no cost on MyCBC. Holds on permanent records resulting from failure to return College equipment or material or failure to complete financial aid exit counseling, must be cleared by the student before unofficial or official transcripts will be released.

CBC does not release transcripts from high schools or other educational institutions. Transcripts from other institutions submitted during the admissions process are part of the student's official file and will not be returned to the student.

Transfer Evaluation

Columbia Basin College subscribes to the statewide policy on Inter-Collegiate Transfer and Articulation, as endorsed by the public and private colleges and universities of Washington and the State Board for Community and Technical Colleges, and adopted by the Washington Student Achievement Council.

CBC accepts credits transferred from accredited institutions. Approved institutional accreditation agencies are as follows: Accrediting Commission for Community and Junior Colleges (ACCJC); Higher Learning Commission (HLC); Middle States Commission on Higher Education (MSCHE); New England Commission of Higher Education (NECHE); Northwest Commission on Colleges and Universities (NWCCU); Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) (will be The Commission on Colleges and Universities beginning September 1, 2026); WASC Senior College and University Commission (WSCUC).

Credits earned at institutions during their candidacy for accreditation by an accrediting agency (see the list of approved accrediting agencies above) are accepted if accreditation was granted three years subsequent to the candidacy. Credits earned while an institution was not in candidacy or accredited will not be accepted.

All credits are subject to evaluation based on credit equivalency provided the credit is essentially equivalent in academic level and content to courses offered at CBC. The College reserves the right to accept or reject courses transcribed at other institutions graded with a failing, withdrawal, incomplete, audit or non-credit courses.

International transcripts must be translated into English and evaluated on a course-by-course basis by a current member of NACES®. Students can find a link to the list of NACES® member international transcript evaluation agencies on the Transfer of Credit webpage.

It is recommended that students make an individual appointment with a CBC completion coach to review how transfer credits will apply to CBC degrees and certificates. If students need clarification on an evaluation, they are encouraged to contact the Student Records office.

In lieu of an official transcript evaluation, an unofficial transcript may be used one quarter only for purposes of advising and registration.

Transfer of Credit Process

1. Apply for admission or reactivate your account.

2. Send in transcripts from previously attended colleges and/or universities. A transcript is official if it is sent directly from the sending institution to CBC.

3. Your transcripts will be reviewed and a course-by-course evaluation will be completed. You will be notified when the evaluation is complete.

For more information, visit the Transfer of Credit webpage.

Reciprocity Agreement

Washington Community and Technical Colleges (CTCs) offer reciprocity to students transferring within the CTC system who are pursuing the Associate in Arts and Sciences degree (AA-DTA). Students who completed an individual course that met distribution degree requirements or fulfilled an entire area 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. To earn a degree and/or certificate, students must initiate the review process and must be prepared to provide necessary documentation to both the sending and receiving institutions. Students must meet the graduation residency requirement and must be continuously enrolled, as defined under the Catalog Option Policy.

Academic Credit for Prior Learning (ACPL)

Columbia Basin College acknowledges opportunities for mastering specific skills and competencies that can be gained outside of a formal classroom experience. Prior learning can be achieved through education, work or life experiences. Students may earn credit and/or advanced placement.

Currently enrolled students may earn college credit when they demonstrate course mastery by examination, evaluation of their professional experience or substantial prior learning meets the specific outcomes of a CBC course. Each department determines eligible courses and the evaluation method required for students to demonstrate mastery of course content.

Non-Traditional Learning Credit

- Experiential Learning (EL)
- Extra-Institutional Learning (EIL)
- Course Challenge (CC)
- Military Credit and Experience

Non-Traditional Learning Credit Guidelines:

- Students must be currently enrolled at CBC before credits can be awarded. Credits may be awarded for courses offered at CBC.
- No credit will be awarded if the same course is taken at CBC, except for variable credit courses.
- Students may earn:
  - CBC associate degree (transfer and professional/technical)/certificate: Up to half of the total credits required.
  - CBC bachelor's degree: Up to half of the total credits required.
- Credits do not count toward the minimum residency requirement.
- Credits will be recorded with a P grade (with the exception of course challenge for which a decimal grade is awarded) and are limited to use within the restricted electives of transfer degrees (AA/DTA, AA/DTA/MRP, AS-T).
- Students will need to pay non-refundable fees to earn credit.

Exam-Based Credit

- Advanced Placement (AP)
- International Baccalaureate (IB)
- Cambridge International (CI)
- College Level Examination Program (CLEP)
- DANTES Subject Test (DSST)

Exam-Based Credit guidelines for AP, IB, CI:

- Students must be currently enrolled at CBC before credits can be awarded.
- Credit will be awarded on the basis of official results, not transcript notation.
- No credit will be awarded if the same course is taken at CBC, except for variable credit courses.
- Students may earn:
  - CBC associate degree (transfer and professional/technical)/certificate: Up to half of the total credits required.
  - CBC bachelor's degree: Up to half of the total credits required.
- Credits do not count toward the minimum residency requirement.

Transfer Information

- Credits will be recorded with a P grade and may be used within any discipline, as they're not restricted.

Exam-Based Credit guidelines for CLEP, DSST:

- Students must be currently enrolled at CBC before credits can be awarded.
- Credit will be awarded on the basis of official results, not transcript notation.
- No credit will be awarded if the same course is taken at CBC, except for variable credit courses.
- Students may earn:
  - CBC associate degree (transfer): Up to 15 restricted elective credits, see degree requirements.
  - CBC associate degree (professional/technical)/certificate: Up to half of the total credits required.
  - CBC bachelor's degree: Up to half of the total credits required.
- Credits do not count toward the minimum residency requirement.
- Credits will be recorded with a P grade and may be used as restricted electives.

For more information about academic credit for prior learning, visit the Academic Credit for Prior Learning webpage.

Experiential Learning

Columbia Basin College grants credit for learning that ties prior experiences to the theories, data and skills in the discipline for which the student is seeking credit. Assessment of experiential learning credit is the responsibility of faculty who are content specialists. Each department that offers credit for experiential learning establishes specific evaluation methods. Experiential learning credit is granted only for classes that are designated as experiential learning eligible courses. For more information, visit the Academic Credit for Prior Learning webpage.

Extra-Institutional Learning

Columbia Basin College grants credit for knowledge and skills acquired outside the institution and objectively verified through third-party certifications. This includes industry-recognized testing/training, licensure exams and occupational crosswalks. For more information, please visit the Academic Credit for Prior Learning webpage.

Course Challenge

Columbia Basin College grants credit when a student demonstrates that previous experience provides the competencies essential for passing the course. The course challenge may only be completed during the term in which the course is being offered. If the student is enrolled in a course for which they wish to challenge, the course challenge process must be completed within the first week of the course. Course challenge is granted only for classes that are designated as course challenge eligible courses. For more information, visit the Academic Credit for Prior Learning webpage.

Military Credit & Experience

Columbia Basin College recognizes learning acquired in the military by accepting the credit recommendations of the Guide to the Evaluation of Educational Experiences in the Armed Services. In addition, a student may earn credits awarded by institutions listed in the ACE National Guide to Educational Credit for Training Program and the Directory of the National Program on Non-collegiate Sponsored Instruction, provided that the courses are at college level.

Credits will be evaluated only from official military documents requested by the student and based on the American Council on Education's Registry of Credit Recommendations. For military credit and experience, a maximum of three physical education credits will be awarded. All other military credits are limited to use within the restricted electives of transfer degrees (AA/DTA, AA/DTA/MRP, AS-T). Official military transcripts must be received by the end of the student's second quarter at CBC.

College Board Advanced Placement (AP)

Washington state community and technical colleges will award unrestricted elective credit for an Advanced Placement (AP) score of three or higher. Credits granted for general education or major requirements will be specified by the receiving institution's AP credit policies; otherwise, elective credit will be granted. AP scores, even once added to the transcript, are subject to re-evaluation at institutions outside the Community and Technical College system, including baccalaureate institutions. For more information, visit the Academic Credit for Prior Learning webpage.

International Baccalaureate

Washington state community and technical colleges will award unrestricted elective credit for an International Baccalaureate (IB) score of four or higher on standard-level or higher-level IB exams. Credits granted for general education or major requirements will be specified by the receiving institution's IB credit policies; otherwise, elective credit will be granted. IB scores, even once added to the transcript, are subject to re-evaluation at institutions outside the Community and Technical College system, including baccalaureate institutions. For more information, visit the Academic Credit for Prior Learning webpage.

Cambridge International (CI)

Washington state community and technical colleges will award unrestricted elective credit for a Cambridge International (CI) score of E or higher on A and AS level exams. Credits granted for general education or major requirements will be specified by the receiving institution's CI credit policies; otherwise, elective credit will be granted. CI scores, even once added to the transcript, are subject to re-evaluation at institutions outside the Community and Technical College system, including baccalaureate institutions. For more information, visit the Academic Credit for Prior Learning webpage.

College Level Examination Program (CLEP)

Columbia Basin College grants credit for a score of 50 in the specific examination. For more information, visit the Academic Credit for Prior Learning webpage.

DANTES Subject Standardized Test (DSST)

Columbia Basin College grants credit for a score of 500. For more information, visit the Academic Credit for Prior Learning webpage.

Transferring to a College/ University

Transfer Intent Students

Students who intend to transfer to a bachelor's institution to complete a four-year degree are strongly recommended to work closely with Columbia Basin College completion coaches when planning their course selection. Additionally, students should familiarize themselves with the requirements and procedures of the institution to which they wish to transfer as soon as possible in their college experience. These are generally found in the baccalaureate institution's catalog or on their website.

The following tips may be helpful to transfer intent students:

Transfer Information

- Students should know the admission requirements for transfer.
- Students should know the general graduation requirements and the recommended courses for the first two years of college in their field of interest or major.
- Courses numbered 100 and above will usually transfer to most baccalaureate institutions. However, acceptance of CBC courses, academic credits for prior learning, credits by examination and transfer GPA computation remain a prerogative of the receiving baccalaureate institutions. Most professional-technical courses are not designated for transfer and are subject to the 15-credit limitation within the Associate in Arts and Sciences degree.
- Any change in major or choice of baccalaureate institution may necessitate adjustment of a student's curriculum to meet the admission and/or course transfer requirements of the different baccalaureate institution. Students should meet with their completion coach as soon as possible to discuss the impact of any change in their curricula.
- Students should attend CBC transfer workshops when they are offered.
- Students should schedule meetings with representatives of the institution to which they wish to transfer whenever they may be on the CBC campus to meet with prospective students.
- Students should apply to the baccalaureate institution according to the institution's procedures and deadlines and provide their official CBC transcript as requested to the baccalaureate institution.
- Before transferring, students should arrange to visit the campus of the baccalaureate institution, which allows students to see the facilities and visit with an advisor in their major. Students should take a CBC transcript of their grades with them to facilitate the advisory meeting.

Reverse Transfer

Students who leave CBC without a degree may transfer the required remaining credits from an accredited college/university back to CBC to have their degree* posted. Students must complete the following:

- Update contact information with Student Records.
- Complete a graduation application with a completion coach.
- Submit official transcript from the college/university to CBC for evaluation of transference of credits.

**Please see Catalog Option Policy to determine which degree requirements students must meet.*

Transfer Rights & Responsibilities

1. Students have the right to clear, accurate and current information about their transfer admission requirements, transfer admission deadlines, degree requirements and transfer policies that include course equivalencies.
2. Transfer and freshman-entry students have the right to expect comparable standards for regular admission to programs and comparable program requirements.
3. Students have the right to seek clarification regarding their transfer evaluation and may request the reconsideration of any aspect of that evaluation. In response, the College will follow established practices and processes for reviewing its transfer credit decisions.
4. Students who encounter other transfer difficulties have the right to seek resolution. Each institution will have a defined process for resolution that is published and readily available to students.
5. Students have the responsibility to complete all materials required for admission and to submit the application on or before the published deadlines.
6. Students have the responsibility to plan their courses of study by referring to the specific published degree requirements of the college or academic program in which they intend to earn a bachelor's degree.
7. When a student changes a major or degree program, the student assumes full responsibility for meeting the new requirements.
8. Students who complete the general education requirements at any public four-year institution of higher education in Washington, when admitted to another public four-year institution, will have met the lower division general education requirements of the institution to which they transfer.

College & University Rights & Responsibilities

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

Specialized Transfer Assistance

Washington State University Tri-Cities at Columbia Basin College

Columbia Basin College students and staff seeking information about transferring to Washington State University (WSU) Tri-Cities through the Bridges program can meet with WSU Tri-Cities advisors located in their Transfer University office. Bridges is a coordinated bachelor's degree program partnership between CBC and WSU Tri-Cities, offering students a continuous pathway to one of 21 bachelor's degree programs. An important component of this program is the integrated advising that occurs between CBC students, completion coaches, and WSU Tri-Cities academic advisors utilizing Plans of Study to keep students on track toward a bachelor's degree. On the CBC campus, completion coaches share transfer information via office visits, campus information tables, Future Cougs FYI modules and collaborative workshops.

To meet with a CBC completion coach about your CBC degree options and requirements, or to schedule an appointment with a visiting WSU Tri-Cities academic advisor about Bridges, contact CBC Counseling & Advising at 509-542-5505. To learn more about the Bridges program, visit the Bridges webpage.

Heritage University at Columbia Basin College

Heritage University offers rigorous, relevant and responsive academic programs in the Tri-Cities through a convenient evening and weekend model. With a strong liberal arts environment that stresses academic excellence, cross-cultural learning and the development of the whole person, Heritage University provides professional and career-oriented programs to prepare students for life and work.

Program advisors are available to meet with interested students at the Heritage at CBC office in the Planetarium.

For more information:
Heritage at CBC
T Building, Room T347
2600 N. 20th Ave., Pasco, WA
509-542-5506 or email tricities@heritage.edu

Academic Information

Attendance

By choosing to attend Columbia Basin College, students agree to actively participate in the learning process offered by the College. Students are expected to attend all class sessions.

Attendance in online classes is determined by engaging in academic activity required for the course. This may include participating in an online discussion, taking a quiz or viewing a lecture. Solely logging in to Canvas or asking a logistical question of the faculty member does not count as attending the online class.

Consult the College-Initiated Withdrawal section in this catalog to review how students may be withdrawn from a class due to excessive absences.

Students should consult individual faculty members and syllabi for specific attendance requirements regarding online portions of courses.

Grading Policy

Grades are available on MyCBC approximately one week after the end of the quarter.

CBC uses a decimal grading system for all courses not graded with a P or Z.

Numerical grades may be considered equivalent to letter grades as shown below.

Decimal Grades	Letter Grade
4.0 - 3.8	A
3.7 - 3.5	A-
3.4 - 3.2	B+
3.1 - 2.9	B
2.8 - 2.6	B-
2.5 - 2.3	C+
2.2 - 2.0	C
1.9 - 1.6	C-
1.5 - 1.3	D+
1.2 - 1.0	D
0.9 - 0.0	F

Note: Each instructor determines individual course grading procedures. Grading information is contained in course syllabi presented at the beginning of each course. Please refer to individual degrees for specific graduation grade requirements.

Letter Grades

Letter grades are awarded in the following categories:

I –– Incomplete - no grade points (see statement on incomplete grade policy)
N –– Audit* - enrollment under non-credit status
P –– Passing - has no grade point value and is not used in grade calculations
W –– Student-Initiated Withdrawal - not calculated in grade point average
WA –– College-Initiated Withdrawal
Y –– No grade reported by a faculty member
Z –– No credit awarded

A student enrolled in a non-credit or audit course does not receive credit for the course and does not receive a grade. Students must pay regular tuition and fees for the non-credit or audit course and may not be required to do the assigned work or take examinations. Students may change from audit to credit on or before the 10th day of instruction. A change, however, from credit to audit requires instructor permission and must be made on or before the 40th day of instruction. For further information, visit Hawk Central.

P (Passing) Grades

Columbia Basin College issues a P (passing) grade in certain predesignated courses or experience-related evaluations for college-level credit. A P grade is earned when performance is certified at a 2.0 grade point minimum. A P grade in a course may satisfy a prerequisite requirement if the performance level is certified at the established minimum defined in the course description.

Students who earn credit via Academic Credit for Prior Learning (ACPL) and receive a P grade should refer to the ACPL section of this catalog for more information regarding how credits are applied toward degree requirements.

Students planning to transfer to a four-year institution are advised to consult with their transfer institution regarding how P grades are applied toward requirements.

Incomplete Grades

An incomplete grade (I) indicates work in progress but was not completed before the end of a quarter. Specific arrangements for completing the required work is agreed to by the faculty member and the student prior to the end of the quarter. Incomplete grades are subject to instructor's discretion. An incomplete grade will be changed to a failing grade if the work is not completed within the first 20 calendar days of the succeeding quarter. The exception is when the incomplete is given in the spring quarter. In this case, the succeeding quarter is the following fall quarter, not the summer quarter.

Computation of Grade Point Averages (GPA)

Grade point averages (GPA) are calculated by dividing grade points earned at Columbia Basin College by the credit hours attempted. Classes using the decimal grading system, not graded with an I, N, P, W, WA, Z or Y are included in the GPA. Credits/GPA earned at previous institutions may be factored into the evaluation of graduation requirements.

Grade Appeal Process

Columbia Basin College (CBC) is committed to ensuring that students have a fair and transparent process for addressing concerns regarding their final course grades. Evaluations will represent the faculty member's professional judgment of the student's performance in meeting these standards. At the same time, students are protected from academic evaluations that are inaccurate, arbitrary, prejudiced, or capricious.

Purpose of the Grade Appeal Process

The grade appeal process is designed to address situations where a student has documentary evidence that a final course grade was assigned incorrectly. This process provides guidelines on what qualifies as a grade appeal, the steps students must take to initiate an appeal, and the responsibilities of faculty, deans, and the Office of Instruction in resolving these matters.

Examples include:

- Assignment or exam not considered into the final grade
- Canvas or other technical error
- Errors in grade calculation
- Grading inconsistent with course syllabus or college policies
- Lack of timely grading or communication of assignment grades
- Unequal or inconsistent application of grading standards

What is NOT covered under grade appeals:

- Appeals based on grades for individual assignments unless they directly impact the final grade and the timing of the assignment precludes prior resolution.
- Complaints about classroom management or instructional methods.
- Disagreements over grading criteria or published standards unless they were misapplied.
- Instructor behavior or other non-grade-related issues are addressed through the formal Student Complaint Process.
- Complaints regarding perceived arbitrary, prejudicial, or capricious treatment are addressed through the formal Student Complaint Process.

If a student has concerns that do not meet the criteria for a grade appeal, they should refer to the formal Student Complaint Process or contact the instructional school's dean or Office of Instruction for guidance.

Student Responsibilities

Students are responsible for reading and understanding Columbia Basin College's academic policies and practices as found in the Washington Administrative Code, CBC Catalog, course syllabi, and course policies as established by the individual faculty members. Students are also responsible for meeting the standards of academic performance established by each faculty member in course syllabi and addenda.

Initiating the Grade Appeal

- It is the student's responsibility to initiate the grade appeal process by contacting the faculty member who taught the course. Contact should be made through the student's official CBC email account.
- Appeals must be initiated within 20 calendar days of the start of the quarter immediately following the term in which the grade was assigned. If the appeal is initiated during a quarter break (e.g., summer or winter break), students should be aware that faculty may not respond until up to 10 calendar days after the new quarter begins.
- Students should gather all relevant documentation, including:
  - Course grading policies and rubrics.
  - Graded assignments, exams, or term papers.
  - Correspondence with the faculty member, especially attempts to clarify or address grade concerns.
- The student must provide a written explanation of the reason for the appeal and include supporting documentation.
- The appealed grade will remain in effect and may appear on the student's transcript while the appeal is being processed. This may impact GPA, financial aid, or other academic matters.

Processing the Grade Appeal

1. Student Initiates Appeal with Faculty Member:
   1. The student contacts the faculty member directly to present the appeal and supporting documentation.
   2. Appeals should not be directed to the dean or Office of Instruction at this stage.
2. Faculty Member's Responsibilities:
   1. The faculty member will respond to the student's initial appeal within 10 calendar days of receiving the request.
   2. If the appeal is initiated during a quarter break, faculty members should respond within 10 calendar days of the start of the next quarter unless they are available sooner.
3. Resolution by Faculty Member:
   1. The faculty member reviews the documentation and discusses the basis for the appeal with the student.
   2. If an error is confirmed, the faculty member will recalculate the grade and submit a grade change via eForm within 10 calendar days of confirming the error.
   3. Faculty may resolve minor concerns informally at their discretion.
4. Escalation to the Dean:
   1. If the faculty member is unavailable (e.g., due to extended leave or no longer working at CBC), or if the student wishes to contest the faculty's decision, the student may escalate the appeal to the school's instructional dean by using the Formal Grade Appeal Form.
   2. The dean will review all documentation, meet with the student and faculty member (if available), and issue a final decision within 10 calendar days of receiving the escalated appeal.
5. Role of the Office of Instruction:
   1. The Office of Instruction does not handle grade appeals. Students who contact the office will be redirected to the appropriate faculty member or dean.
   2. The Office of Instruction is only involved in the formal Student Complaint Process, which is separate from grade appeals.

Grade Forgiveness

Students may petition to have grade records forgiven for courses taken at CBC. This does not remove records from a student's transcript, rather, a grading basis notation of "Grade Forgiveness" is used as the set aside notation on the transcript to identify course(s) that will be disregarded when calculating a new cumulative GPA. Federal Financial Aid regulations do not recognize grade forgiveness. Some transfer institutions may not accept grade forgiveness since each institution interprets transcripts according to its own policies.

Grade forgiveness petitions are available in Counseling & Advising. Students must meet with a completion coach no later than one quarter before graduation. Students may use this petition provided:

- They are currently enrolled at CBC
- The grade records to be forgiven are at least three years old and the student has not attended CBC during that three-year (12 consecutive quarters) period
- They have earned a minimum of 30 credits consecutively with at least a 2.5 cumulative GPA at CBC following the three-year period

Students choose the grade forgiveness quarter to begin, which must be within the time period prior to the three-year absence. If approved, the set aside notation (a grading basis notation of "Grade Forgiveness") begins at the requested quarter and includes all prior quarters. Students may not choose specific courses or quarters to be set aside.

Grade records will:

- Not be reinstated once grade forgiveness is granted
- Not have been used toward a previously earned degree or certificate
- Be forgiven only once

Course Repeat Policy

Upon successful completion of a repeated course, a request may be submitted to calculate the highest grade into CBC's grade point average (GPA). If approved, this request will result in the lowest graded course(s) having a grade identifier of "Grade Repeat" posted below the course(s) on the transcript and that grade will be excluded from the GPA computation. Courses not eligible to repeat are those with letter grades (e.g., P, Z, W, WA, N, I, Y), courses with different credit amounts or courses utilized to complete a transcribed degree/certificate.

To request a course repeat, a student must complete the intended course, which must be equivalent in credit and content to the initial course.

Students receiving financial aid or veterans' benefits should consult the respective office prior to repeating a course as financial penalties may be imposed. Other colleges and universities may include repeated course grades in their eligibility for admissions and/or graduation.

A student who takes a course at CBC and repeats the course at another fully accredited college or university shall be granted a repeat, upon request, with the following conditions:

- The student must be enrolled at CBC.
- The course must be evaluated by CBC and verified as substantially equivalent in credit and content via official transcript.
- All courses and earned grades will remain on the transcript. A grade identifier of "Grade Repeat" will be posted below the course(s) on the transcript.
- A notation will be entered on the CBC transcript indicating the course was repeated via transfer.

Academic Information

Quarterly Honors Designations

Students who earn 12 cumulative credits and achieve a quarterly GPA of 3.50 to 3.84 are named to the Dean's Honor Roll.

Students who earn 12 cumulative credits and achieve a quarterly GPA of 3.85 to 4.00 are named to the President's Honor Roll.

Pass/Fail graded classes are not included in the 12 credit requirement for quarterly honors designations.

Graduation Honors Designations

Students who earn a CBC bachelor's degree, an associate degree or a one-year certificate are eligible to receive scholastic honors as established by the College. The cumulative GPA for all credits earned at CBC is used to calculate eligibility for honors. The honors GPA calculation is based on the last quarter in which all degree requirements have been completed. Credits and grades transferred to CBC from other colleges and universities are not included in the calculation for the honors designation.

Students who earn an associate degree or one-year certificate according to the standards above are eligible to receive honors. The honors designation will be noted on the official transcript and on the diploma or certificate.

Honors: 3.50 to 3.84
High Honors: 3.85 to 4.00

For purposes of the graduation program and ceremony regalia, the honors designation will be based not on the final quarter completed for degree or certificate requirements, but on the GPA as established from the winter quarter transcript for the graduating year.

Students who earn a CBC bachelor's degree are eligible to receive scholastic honors as established by the College. The cumulative college-level GPA for all credits earned at CBC is used to calculate eligibility for honors. The honors GPA calculation is based on the last quarter in which all degree requirements have been completed. Credits and grades transferred to CBC from other colleges and universities are not included in the calculation for the honors designation.

Cum Laude (with honors): 3.50 to 3.69
Magna Cum Laude (with high honors): 3.70 to 3.89
Summa Cum Laude (with highest honors): 3.90 to 4.00

Standards of Academic Progress & Performance

A student's enrollment at Columbia Basin College is a partnership among the student, the College and the state of Washington. CBC has a responsibility to each student, but also to the state, that helps fund each student's college education, to develop standards of academic progress and performance. The College utilizes various resources and support programs to assist students toward successful academic performance and program completion.

The College provides detailed information about degree and certificate requirements at mandatory advising, registration and orientation programs for new degree- and certificate-seeking students. The College monitors student progress and academic performance throughout enrollment and intervenes when expectations are not being met.

CBC does not intend to discourage or penalize students who are sincerely trying to make good use of the College's resources. Nevertheless, there may be instances when the College may determine that a student is not benefiting from continued enrollment. In such cases, the College may take steps to either limit or deny future enrollment.

Academic Performance

Columbia Basin College's Academic Performance Policy includes both grade performance and credit completion components. Students in a degree or certificate program must maintain a minimum cumulative GPA of 2.0. Additionally, excessive withdrawals from classes are problematic as they delay students' completion and decrease the College's ability to efficiently manage class enrollment.

Early Warning Signs of Academic Difficulty

Students are strongly encouraged to seek advice from a CBC Counselor or completion coach as well as use College resources when they first begin to show signs of academic difficulty. These signs include, but are not limited to:

- Failing FYI
- Class instructor concerns about their academic performance
- Students' own acknowledgement they are not understanding class material or doing well in their coursework
- Quarterly GPA below 2.0

Academic Sanctions

Students who have a quarterly and/or cumulative GPA below 2.0 will be placed on academic warning or probation that could progress to academic dismissal if future academic performance does not improve. CBC may block students' ability to register for future classes until they have met specific intervention requirements. When students improve their cumulative and quarterly GPA to 2.0 or higher, they will be removed from unsatisfactory performance status. However, the College reserves the right to continue to monitor student progress and performance as it deems appropriate.

Warning – Students who have a quarterly GPA below 2.0 but have maintained a cumulative GPA above 2.0 will be placed on warning status. Students with a second consecutive quarter below 2.0 will be placed on probation status regardless of cumulative GPA.

Probation – This sanction applies to the first quarter a student receives a cumulative GPA below 2.0, or two consecutive quarterly GPAs below a 2.0 regardless of cumulative GPA. A block will be placed on the student's ability to register until the student has successfully completed the online Distress to Success workshop in CANVAS. For further information, contact Counseling & Advising.

Subject to Suspension – Students on probation who have a second consecutive quarter below 2.0 will be placed in Subject to Suspension status. Under this sanction, the student will receive a warning letter that the next academic sanction is academic suspension. The student will be required to meet with a CBC completion coach so that they can begin to address whatever issues or barriers may be impeding their academic success. The student will remain in subject to dismissal status as long as they receive quarterly GPAs of 2.0 or higher and until the cumulative GPA reaches 2.0.

Suspension – CBC will academically suspend the student who is in subject to suspension status when their subsequent quarterly GPA is under 2.0 and/or their cumulative GPA remains below 2.0. During Academic Suspension, students may not register for any classes and may not participate in any events or activities reserved for students. Academically suspended students may re-enroll in one of three ways: 1. Appeal the academic suspension (see Appeal of Academic Suspension); 2. Complete an Academic CPR (HDEV 110) course; or 3. Petition for reinstatement.

- A student may return from academic suspension by completing CBC's Academic CPR workshop. Workshops are offered each quarter. After passing the workshop, the student may return to CBC the subsequent quarter. To learn more about the option to complete Academic CPR contact Counseling & Advising to

schedule an appointment to meet with a counselor.
- Students also have the option to sit out two quarters and petition for reinstatement. The student will be scheduled to meet with the Dean for Student Retention & Completion who will decide if the student will be allowed to be re-admitted to CBC and/or set conditions to be met upon return.

Conditional Enrollment – Students reinstated after completing the Academic CPR workshop or through the Reinstatement or Appeals Committee will be placed on conditional enrollment status and must maintain a minimum 2.0 quarterly GPA. Those who do not fulfill the performance standards via Academic CPR or while on conditional enrollment status may be Academically Dismissed and required to sit out for at least two quarters, not including summer.

Academic Dismissal – Students who fail to maintain a 2.0 quarterly GPA while on Conditional Enrollment will be academically dismissed. During Academic Dismissal, students may not register for any classes and may not participate in any events or activities reserved for students. Academically dismissed students may re-enroll in one of two ways: 1. Appeal the Academic Dismissal (see Appeal of Academic Dismissal); 2. Petition for Reinstatement after sitting out for two quarters not including summer. The Petition For Reinstatement application must be submitted at least 90 days prior to the start of the quarter in which the student plans to return. Students who have been previously suspended will not be allowed to repeat Academic CPR.

Appeal of Academic Suspension/ Dismissal – Students may appeal an academic suspension or dismissal based on extraordinary circumstances that affected their performance during the quarter leading to the academic dismissal. Students must submit an Appeal of Academic Dismissal form to the Dean for Student Retention & Completion no later than 10 calendar days from the date of the dismissal. Documentation to support a statement of extenuating circumstances is required. The Dean may request a meeting with the student prior to deciding. If the appeal is granted, the student will be allowed to register at the start of the next quarter.

- If the academic dismissal is reversed, the student will be allowed to register at the start of the next quarter. Students who fail to maintain the academic standards for Conditional Enrollment (above) will be academically dismissed for a period of one year without the right to a second appeal.
- If the academic dismissal is affirmed, the student will not be allowed to re-enroll at CBC until either completing an Academic CPR workshop (if not previously attempted) or sitting out for four consecutive quarters and petitioning for reinstatement (see Academic Dismissal above).

Conditional Enrollment

Students reinstated after completing the Academic CPR workshop or through the Reinstatement Committee will be placed on conditional enrollment status and must maintain a minimum 2.0 quarterly GPA. Those who do not fulfill the performance standards via Academic CPR or while on conditional enrollment status may be Academically Dismissed and required to sit out for at least four quarters.

Students on conditional enrollment are not able to self-register for classes and are required to meet with a counselor to register or adjust their schedule. CBC reserves the right to limit the number of credits taken by students on Conditional Enrollment.

Education Records

Annual Notification of Rights under FERPA

The Family Educational Rights and Privacy Act (FERPA) affords students and the College certain rights with respect to education records. They are:

1. The right of the student to inspect and review their education records within 30 business days of the day Columbia Basin College receives a request for access.

Requests to review your records must be made in writing to the Registrar. The Registrar has up to 30 business days to schedule a time for you to visit Student Records to review your records on campus. Copies* may be provided to you only, and a fee may be assessed at an amount not to exceed the actual cost to the College.

*Copies of official transcripts from other educational institutions are prohibited. Please contact the institutions from which the transcripts originated to obtain official transcripts.

Student records will be maintained according to the retention policy set out by the State Board for Community and Technical Colleges.

The College reserves the right to refuse to permit the inspection and review of:

- Financial statements of the student's parents
- Confidential letters and confidential statements of recommendation placed in the education record if the student has waived his or her right to inspect and review those letters and statements and the letters and statements related to the student's admission to a program, an application for employment or receipt of an honor or honorary recognition
- Confidential letters and statements placed in the education record except when these documents have been used for any purpose other than that for which they were originally intended
- Records that contain information about other students
- Documents excluded from the FERPA definition of education records

2. The right of the student to request the amendment of their education records that the student believes is inaccurate, misleading or otherwise in violation of the student's privacy or other rights.

Students may request that the College amend a college-initiated record that they believe is inaccurate, misleading or otherwise inappropriate. They should submit their request in writing to the Registrar/designee, clearly identifying the part of the record they want changed and specifying why the record is inaccurate, misleading or otherwise inappropriate.

The College will provide a written response to student requests, either demonstrating the change in the record that has been made or the decision not to amend the record as requested. In the latter case, the College will notify the student of their right to a hearing regarding the request for the amendment as well as provide additional information regarding the hearing procedures.

3. The right of the College to release personally identifiable information contained in a student's education records, except to the extent that FERPA authorizes disclosure without consent (#4).

One exception, which permits disclosure without consent, is disclosure to College officials with legitimate educational interests. College officials include parties who contract with the College or are required by law to provide services to the College and have a legitimate educational interest in a student's education records.

A legitimate education interest applies to individuals who are:

- Performing a task or service specified in the official's position description or contract
- Performing an instructional task directly related to the student's education
- Performing a task related to the discipline of a student
- Providing a service or benefit related to the student or student's family, such as healthcare, counseling, job placement, financial aid or health and safety emergency
- Providing legal services to the College
- Acting on behalf of accrediting organizations

4. The right of the College to release directory information without student consent.

Directory information may be disclosed without consent if it is determined the party requesting the information has a legitimate need for the information. A list of current directory information is available on the FERPA webpage. Additionally, per the Solomon Act, the College is required to provide military recruiters with name, address, phone number, age and degree program for enrolled students over age 17.

Columbia Basin College may disclose personally identifiable information designated as directory information from a student's education records without prior consent. Students who do not wish to have any or all of such directory information published without their prior consent must update their Privacy Restrictions in ctcLink. If a student places this hold on their account, it will remain in effect until otherwise updated. This request will prevent any release of information to a third party without a signed release of information from the student. In addition, the electronic record will be annotated preventing the electronic release of information in the student records.

5. The right of the College to release educational records without student consent.

Institutions may disclose to parents or legal guardians the educational records or components thereof without written consent by the student if it is determined that the student violated any federal, state or local law or any institutional policy or rule governing the use of alcohol or controlled substances (refer to Article V of the CBC Code of Conduct) and the student is under the age of 21 at the time of the disclosure to the parent. FERPA allows higher educational institutions to share information as necessary in a crisis or in situations where students are a potential harm to themselves or others.

6. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Columbia Basin College to comply with the requirements of FERPA.

The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue SW
Washington, DC 20202-4605

Student Records Retention

Columbia Basin College academic records will be maintained according to the state retention guidelines. For further information, contact the Registrar at records@columbiabasin.edu.

General Policies

Student Rights & Responsibilities

All students at Columbia Basin College are expected to comply with College policies, procedures, and regulations. Students are also provided with certain rights, including due process. These rights and responsibilities are fully outlined in student policies, which are administered by the Vice President for Student Services. For further information, please contact the Office of the Vice President for Student Services.

Alcohol & Drug Free Schools/Workplace

In compliance with the Federal Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act of 1989, Columbia Basin College has adopted and implemented a drug and alcohol prevention program. Unlawful possession, use or distribution of alcohol and illicit drugs is disciplinable for students under the Student Code of Conduct and employees under applicable policies. Please note: marijuana remains an illicit drug on CBC's campuses. Information regarding CBC's drug and alcohol prevention program under these laws can be found in the Alcohol & Drug Free Workplace Policy.

Hazing

Consistent with Washington statute, RCW 28B.10.900, CBC prohibits students, student organizations, athletic teams and living groups from engaging individually or collectively in hazing activities. Individuals or groups that engage in hazing will be subject to disciplinary action under the Student Code of Conduct, Chapter 132S-100 WAC. Questions, concerns, reports, or complaints regarding actual or suspected hazing should be referred to the Office of Student Conduct at conduct@columbiabasin.edu or 509-542-4765, or ext. 2765.

Non-Discrimination & Harassment Policy and Procedure

Columbia Basin College recognizes its responsibility for investigation, resolution, implementation of corrective measures and monitoring the educational environment and workplace to stop, remediate and prevent discrimination on the basis of race, color, national origin, age, perceived or actual physical or mental disability, pregnancy, genetic information, sex, sexual orientation, gender identity, marital status, creed, religion, honorably discharged veteran or military status, or use of a trained guide dog or service animal, as required by Title VI of the Civil Rights Act of 1964, Title VII of the Civil Rights Act of 1964, Title IX of the Educational Amendments of 1972, Sections 504 and 508 of the Rehabilitation Act of 1973, the Americans with Disabilities Act and ADA Amendment Act, the Age Discrimination Act of 1975, the Violence Against Women Reauthorization Act and Washington State's Law Against Discrimination, Chapter 49.60 RCW and their implementing regulations. To this end, Columbia Basin College has enacted policy prohibiting discrimination against and harassment of members of these protected classes. Any individual found to be in violation of policy will be subject to disciplinary action up to and including dismissal from the College or from employment. The policy, grievance process and complaint form can be found in the Non-Discrimination & Harassment Policy and Procedure.

The College takes complaints about harassment and discrimination very seriously. Depending on the facts of the individual situation, the College may proceed with actions consistent with its due process procedures, Office for Civil Rights guidance, personnel policies, collective bargaining agreements and Student Code of Conduct. If the behavior may be criminal, the claimant has the right to file a criminal complaint with local law enforcement. This will not delay the College in doing its own work to address the complaint promptly and equitably.

Employee, student, applicant or visitor complaints of harassment including sexual assault and misconduct, and discrimination based on an individual's protected class status or gender are handled by the Vice President for Human Resources & Legal Affairs/Title IX Coordinator who can be reached by phone at 509-542-5548, by email at vphr@columbiabasin.edu or in person at the Human Resources office located in the A Building on the Pasco campus.

Retaliation by, for or against any participant (including claimant, responding party, witness, Title IX/EEO Coordinator or investigator) is expressly prohibited. Retaliatory action of any kind taken against individuals as a result of seeking redress under the applicable procedures or serving as a witness in a subsequent investigation, or any resulting disciplinary proceedings is prohibited and is conduct subject to discipline.

Student Absence for Reasons of Faith and Conscience

Students may request an accommodation for absences for reasons of faith or conscience or for organized activities conducted under the auspices of a religious denomination, church or religious organization. An accommodation may include rescheduling examinations or activities necessary to complete the course or program. Any student seeking a reasonable accommodation under this policy, must provide written notice to the Office of Instruction at instruction@columbiabasin.edu within the first two weeks of the beginning of the course with the specific dates the student requests accommodations for examinations or other activities. The Office of Instruction will notify the student of the approval or denial in accordance with the Student Absence for Reasons of Faith or Conscience Policy.

Transitional Studies Progression Policy

Students enrolled in a Basic Education for Adults course are expected to make academic progress in adherence to the progression policy guidelines stated in the State Board for Community and Technical College's Basic Education for Adult Handbook.

For more information about the progression policy at Columbia Basin College, please visit the Transitional Studies Progression Policy webpage.

Student Complaint Process

The purpose of the CBC student complaint process is to establish a process whereby a student may express dissatisfaction with the performance or action of a faculty or staff member that the student believes to be a violation of student rights under WAC 132S-90-010 and/or is inconsistent with College policy.
This process is not to be used when a student disagrees with the teaching practices, or the work required for a course. Issues excluded from the student complaint process are:

- Student Conduct decisions
- Grade appeals
- Discrimination or harassment based on protected class status. For these

complaints, a student can refer to the Non-Discrimination & Harassment Policy and Procedure and Title IX Grievance Policy or by contacting the College's Title IX/EEO office at 509-542-5548.
- Parking citations
- Debt Review decisions

Additionally, this process is not meant to address student concerns and complaints about faculty instructional methods in the classroom or other formal academic settings. The College respects the academic freedom of faculty and will not interfere as it relates to the method or style of teaching. Indeed, academic freedom is and should be of paramount importance.

For more information about the Student Complaint Process at CBC, visit the Student Complaint Process webpage

Students Located Out-of-State and Engaging in Online Learning:

Columbia Basin College is a member of the National Council for State Authorization Reciprocity Agreements (NC-SARA) which allows us to provide distance learning programs (both online and in the form of supervised field experiences) and coursework to residents of states other than Washington. Per NC-SARA policy complaints made by students located outside of Washington who are participating in distance education courses must first go through Columbia Basin College's own student complaint process.

If the student is not satisfied with the outcome of the institutional process, the complaint (except for complaints about grades or student conduct violations) may be appealed, within two years of the incident about which the complaint is made, to Washington State's SARA Portal Entity, the Washington Student Achievement Council (WSAC). WSAC has the final authority in SARA complaints.

See the SARA Student Complaint Process for a flowchart of the full process.

State Authorization & Professional Licensure

State Authorization

State authorization is the permission Columbia Basin College has from other U.S. states and territories to offer educational activities to students located within their borders. CBC is a member of the National Council for State Authorization Reciprocity Agreements (NC-SARA), which allows us to provide distance programs and coursework to students located in most locations outside of Washington.

Even if CBC is authorized to provide distance education in your state, professional licensure programs may require further authorizations when state licensing agency rules are in effect. Please refer to Licensure for Professional Technical Programs or contact your program for more information.

Professional Licensure Compliance

Professional licensure and certification requirements vary by state and territory. Students who are considering an academic program that may lead to professional licensure should refer to the Licensure for Professional Technical Programs webpage to determine whether a program meets the educational requirements in their location. Per federal regulations, distance education professional licensure programs cannot enroll students from states/territories where the program curriculum does not meet, or the college cannot determine it meets, the educational requirements set by the state/territory licensing agency.

If CBC determines the program curriculum does not meet or if we cannot determine whether we meet the educational requirements, we will contact you with any next steps. Non-responsiveness may lead to a hold being placed on registration and/or unenrollment from courses.

NOTE: State licensure requirements are subject to change. Since our research findings are only updated annually, students are encouraged to review their state's or territory's requirements and to contact the appropriate licensing agency for the most up-to-date information.

Additional College policies can be found on the CBC website.

Student Resources

Academic Success Center

The Academic Success Center (ASC) supports CBC students in achieving their learning goals by offering a welcoming space for academic support and active learning. The ASC provides free in-person and online tutoring in high-demand subject areas, including math, science, computer science, world languages and the humanities. Students can access drop-in tutoring for one-on-one or small group support, and the ASC also provides access to computers, printers, textbooks, whiteboards and private study rooms and other helpful resources.

Online eTutoring, in addition to our in-house tutoring services, provides live support in a variety of subjects, including writing assistance, and is available seven days a week, with tutoring times in the late evenings.

The ASC also offers students support through ASC mentors. ASC mentors are successful CBC students who can help students navigate the college system, including learning new study skills and strategies, accessing campus resources and providing support and encouragement.

For more information about the ASC and online tutoring, come to the Academic Success Center in room T433 of the T Building, call 509-542-4676, email asc@columbiabasin.edu or visit the ASC webpage.

Writing Center

As a branch of the ASC, the Writing Center, located in the Library, offers writing support for all subject areas. Consultations with writing tutors help students at any stage of the writing process, including planning, reorganizing and developing drafts and revising for details and clarity. Students can also strengthen their reading, writing and critical thinking skills. Appointments can be made by contacting the Academic Success Center or through the ASC webpage.

Assessment Center

Assessment

While standardized testing in English, reading and math may be used to support accurate college course placement, the Assessment Center also evaluates multiple measures to determine the most appropriate placement for each student. For more information, please contact the Assessment Center at testingcenter@columbiabasin.edu or 509-547-0511.

GED® Exams

Adults who have not graduated from high school may obtain a Certificate of Educational Competency by passing mathematics, social studies, science and literature tests administered by the Assessment Center. Students seeking assistance in preparing for these exams should contact Adult Basic Education in the Transitional Studies department at transitionalstudies@columbiabasin.edu.

Other Testing

The Assessment Center proctors several CBC program exams in addition to remote testing. We also offer proctor services to the surrounding communities. For more information, visit the Assessment Center webpage.

Athletics

CBC is a member of the Northwest Athletic Conference (NWAC). CBC's teams compete in baseball, softball, basketball, golf, soccer and volleyball. Esports was added during the 2024-25 academic year, and competes in the National Junior College Athletics Association Esports (NJCAAE). Athletic scholarships are available for participants. Participants must be enrolled in at least 12 credits per quarter. Second-year participants must maintain a 2.0 GPA.

Bookstore

Columbia Basin College Bookstore is located in the H Building (HUB) on the Pasco campus. Current store hours, policies and procedures are posted at the store and on the CBC Bookstore webpage. The bookstore sells required and recommended textbooks, as well as general reading materials and study aids, school supplies, calculators, art and engineering supplies, insignia clothing and merchandise and gift items. You can shop in the store and on the website for textbooks and other select merchandise. CBC Bookstore is owned and operated as a service by Columbia Basin College for students and the community, and welcomes opportunities to serve you. You can contact us at 509-542-4893.

College Assistance Migrant Program (CAMP)

The College Assistance Migrant Program (CAMP) supports students from migratory or seasonal farmworker backgrounds (or their immediate family members) who are enrolled in their first year of undergraduate studies at an institution of higher education. CAMP's mission is to help students build a strong academic foundation and provide the necessary support to reach their educational and career goals. The program offers a range of services, including outreach, personal and academic counseling, tutoring, financial aid assistance, exposure to cultural and educational activities and many professional opportunities.

In addition, CAMP provides follow-up services to students after their first year. Follow-up services include monitoring academic progress and referring students to on-campus or off-campus resources for further support. The U.S. Department of Education's Office of Migrant Education monitors the program to ensure objectives are met, compliance is maintained and areas for improvement are identified. For more information, contact the CAMP office at 509-542-4602 or visit the CAMP webpage.

Counseling & Advising

The primary responsibility of Counseling & Advising is to assist students in their personal, educational and professional growth and planning. Counseling & Advising provides a variety of services including educational planning, academic and transfer advising, career counseling, human development courses and personal counseling.

Educational Planning

Completion coaches assist students in their transition to CBC by providing information about the College's processes, procedures and policies. They participate in College orientation and initial registration activities and, most importantly, assist students in developing educational plans to meet individual goals.

Academic and Transfer Advising

Although a variety of individuals at CBC provide academic advice to students, completion coaches are primarily responsible for assisting students in making decisions about academic or occupational goals. They provide specific information about CBC courses and programs, as well as specialized training options and transfer requirements for other educational institutions.

Student Resources

Career Counseling

Counselors help students and members of the community identify educational interests and assist in career exploration. They interpret interest and personality inventories to aid individuals who are making career and educational decisions or are undecided about a major or program.

Human Development Courses

The Counseling faculty teach a variety of human development courses. Please refer to the Courses section of this catalog for course descriptions.

Career Services

Career Services supports students through every stage of their professional career development by providing them with in-person, virtual and asynchronous resources to grow their career readiness skills. Career, transfer, job search and personal/professional development workshops are scheduled throughout the year. One-on-one appointments are available for students who need more individualized support. They partner with employers to connect students to job, internship and volunteer opportunities. Lastly, they also tap into college, local, state and nationwide networks to provide information and referrals to a wide range of resources.

Personal Counseling

Counselors are registered by the state of Washington to provide personal counseling and assist students with issues that may affect their academic performance or progress in meeting their educational goals. They offer workshops and other interventions aimed at improving student educational success and personal development. Counselors provide short-term personal counseling and refer students to community mental health professionals, if needed.

To schedule an appointment, please call Counseling & Advising at 509-542-5505.

Disability Support Services

Disability Support Services (DSS) is located in the T Building in Suite T422. DSS is dedicated to ensuring equal access and inclusion for all students with either provisional or permanent physical, health, learning, sensory or psychological disabilities. Disability-related accommodations may include adaptive equipment, assistive technology, testing, note taking support, classroom equipment and information. If you are experiencing challenges with learning, understanding, paying attention or subjects that seem harder than they should, DSS may be able to help. Please call, email, or stop by the office to schedule an appointment to meet with a specialist to talk about your current challenges. Contact us at 509-542-4412 or dss@columbiabasin.edu.

Educational Technology

EdTech integrates technology tools, resources and strategies into teaching and learning to enhance educational experiences and outcomes. It aims to improve student engagement, increase accessibility and support innovative teaching methods.

EdTech supports students in effectively using and implementing these technologies. This includes crucial support for online and blended (hybrid) courses, as well as enriching face-to-face classes with technology.

EdTech is here to help you leverage these tools for effective teaching and learning. They can be reached at edtech@columbiabasin.edu or 509-542-4543.

Emergency Need Fund

The CBC Foundation's Emergency Need Fund was developed to assist students who are experiencing an unforeseen financial crisis that is creating a barrier to their student success. The fund provides small grants to students who are experiencing a one-time financial hardship that is unlikely to occur again. For more information, please contact the Foundation office at 509-542-4626 or emergencyfund@columbiabasin.edu.

The Workforce Education Center (WEC) also has emergency funding available.

Hawk Central

Hawk Central, located in the H Building (HUB), is centralized within Student Services to offer students an opportunity to meet face-to-face with a friendly customer service specialist. The staff in Hawk Central answer student questions, assist with problem-solving and provide information regarding key student services processes (getting started, financial aid, registration, cashiering and general college information). For more information, please visit the Hawk Central webpage.

Human Resources' Student Employment

The Student Employment Office (SEO) is coordinated through the Human Resources office. The SEO provides on-campus student employment information to CBC students and normally has more than 150 students per quarter working in departments across campus. Information outlining the hiring process can be found on the Student Employment webpage. The webpage also provides tools and resources for students wanting to work on-campus or off-campus through the State Work Study program. Contact the Student Employment office at studentemployment@columbiabasin.edu for more information.

Types of Student Employment at CBC

On-Campus

- Federal Work Study
- CBC Non-Work Study
- Athletic Scholarships through the Athletic Department
- Summer Student Employment

Off-Campus

- State Work Study

While State Work Study is non-CBC employment, it is an opportunity for CBC students to work off-campus for employers in the community, and in jobs related to the student's major and/or career goals. The Financial Aid office assists student workers interested in placement for off-campus employment, though students apply through the CBC online application system. For more information, or to apply, visit the Student Employment webpage.

Criteria for Work Study

(Refer to the Financial Aid Programs section of this catalog for more detail.)

Student workers under Federal Work Study or State Work Study must be enrolled in at least six degree-required credits for the Academic Year and five degree-required credits for Summer Quarter.

Library Services

The CBC Library's main location is in the L Building on the Pasco campus. This location received a renovation during the 2022-23 academic year and has been updated to reflect the needs of a 21st century community college student. Features include a family study room, recording and editing spaces, an archive of CBC history, a silent reading room, collaborative group study spaces, a Technology Services helpdesk and the Academic Success Center's (ASC) Writing Center.

The Pasco and Richland libraries provide a wide range of resources, both on-site and online, to support students' research and other information needs. Both facilities provide a Library classroom, computer lab and laptops for checkout; scanning, printing and copying equipment; and contain individual, group and collaborative study spaces. Databases providing access to articles, videos and e-books are available for use on and off campus.

The Library also maintains collections of print books and videos for educational and recreational purposes including special collections such as children's books, Spanish language material, employee publications and course reserves.

Student Resources

Research help is available from CBC librarians in person and online. Chat assistance is even available 24/7! See the Library webpage for drop-in hours, to chat or to make an appointment.

Math, Engineering, and Science Achievement (MESA)

MESA is funded by the Washington State Board for Community and Technical Colleges (SBCTC). The MESA program supports historically underrepresented students (including African Americans, Native Americans, Hispanic/Latinos, Pacific Islanders and women) who intend to earn a bachelor's degree in Science, Technology, Engineering or Mathematic (STEM) disciplines. Our goal is to further pave pathways for community college students to become the next leaders in STEM.

While at CBC, MESA students have a community of peers and receive support through academic and transfer guidance, workshops, dedicated MESA study center and career and professional development. Most students enrolled in the MESA program are low-income and the first in their families to attend college. For more information, please call the MESA office at 509-542-4538 or email mesa@columbiabasin.edu.

Office of Student Activities

The CBC staff members of the Office of Student Activities supervise and serve as daily advisors to the ASCBC student leaders. Student Activities works with student groups to develop and plan cultural, social, recreational and celebration events to meet the needs of the student body. Student-funded activities include intercollegiate athletics, game room access, music, drama, and various interest clubs.

Associated Students of Columbia Basin College (ASCBC)

ASCBC is thrilled to have you as a member of our student population! Your student government officers are available to help you during your college experience. Stop by our office located on the second floor of the H Building (HUB) to learn about starting a club, sign up for Leadership Council and hear about upcoming student events. We want to make sure that you get the most out of your college experience. Have a great year!

ASCBC Clubs & Organizations

CBC offers a variety of students clubs and organizations that provide opportunities for leadership development, community engagement, personal growth, and involvement beyond the classroom. Student organizations represent a wide range of interests, including academic, cultural, recreational, service, special interest, athletic, and arts-related activities.

Students are encouraged to explore existing organizations or create new student clubs based on shared interests and goals. Student clubs and organizations are supported through ASCBC.

For information about current student organizations or to start a new club, contact ASCBC at clubs@columbiabasin.edu.

Performing Groups

The Music department offers a number of vocal and instrumental groups that students are encouraged to participate in. Some of the ensembles are: Concert Band, Concert Choir and Chamber Choir, Orchestra, Jazz Choir and Jazz Ensemble. Participation in these groups may require an audition. For detailed information, please contact the Music department at 509-542-5531.

The Theatre Arts department provides opportunities to participate in theatrical productions throughout the school year. Students are welcome to join the productions in both on- or off-stage roles. For more information, please contact the Theatre department at 509-542-5544.

Planetarium

The CPCCo Planetarium on the Pasco campus is the largest planetarium theater in Washington. The Planetarium uses the Pacific Northwest's most advanced digital projection system and top-of-the-line software to share the wonder of science, technology and the universe. The Planetarium staff's goal is to enrich education, research and outreach in astronomy, physics and many other sciences for communities in the lower Columbia Basin and beyond. The Planetarium provides learning opportunities for both CBC students and community members using the latest in educational technology both inside and outside of the classroom. The programs offered aspire to make lifelong learning fun for all visitors with immersive and interactive content in the areas of science, technology, engineering, art and mathematics (STEAM).

The Planetarium is used for all of CBC's astronomy courses as well as for other student events, including club ceremonies and movie nights. Educators can schedule field trips for students from pre-K through grade 12 throughout the week, and other private organizations may rent the facility for educational visits.

Public show schedules, ticket sales and other information can be found on the Planetarium webpage.

Student Housing

Columbia Basin College offers on-campus Student Housing to support student success, engagement, and community. Student Housing provides a safe, comfortable, and academically focused living environment where students can live, learn, and grow together while remaining connected to campus resources, activities, and support services.

Housing options include fully furnished living spaces with amenities designed to support student life and academics. Eligibility requirements, housing options, rates, and application are available through the Student Housing Office.

For additional information, please visit the Student Housing webpage or contact the Student Housing office at housing@columbiabasin.edu or 509-542-4550.

Student Support Services

Student Support Services (SSS) at CBC is a federally funded TRIO program under the U.S. Department of Education. SSS provides academic support, aids with fundamental college needs and serves to motivate students to successfully complete their post-secondary education. Participants in SSS benefit from academic advising, transfer planning, major and career planning and tutoring in math and science.

Eligibility for the program is open to students who are first-generation (neither parent has graduated from a four-year college), low-income or have a documented disability. Our goal is to increase student retention, graduation rates and facilitate transition from one level of higher education to the next. For more information or to apply, please visit the Student Support Services webpage.

Upward Bound

CBC's Upward Bound program prepares low-income high school students from Connell, Pasco and Chiawana high schools to become first-generation graduates. Program components include tutoring, advising, pre-college workshops, college tours, cultural events, community service and a summer program. Senior participants may attend the summer Bridge program for a tuition-paid summer quarter, with intensive support during their first quarter of college course work.

Eligibility

- Potential first-generation college graduates
- Attending ninth or tenth grade at a target school
- Family income meets federal guidelines

- Determined to succeed in college

Upward Bound serves more than 80 students from three schools and is 100% funded by the U.S. Department of Education Grant No. P047A220232.

Veterans Education & Transition Services

The Veterans Education and Transition Services (V.E.T.S.) Center is dedicated to supporting military affiliated students in their transition to CBC through academic advising, education benefits certification, navigating the college system and workshops tailored to veteran student success. The V.E.T.S. Center also offers a study space, student computer lab and free coffee daily. To learn more about services for military affiliated students at CBC, visit the Veterans webpage or speak to a member of the V.E.T.S. Center staff at 509-542-4404.

Veterans Benefits Approval Statement: Selected programs of study at Columbia Basin College are approved by the Workforce Training and Education Coordinating Board's State Approving Agency (WTECB/SAA) or Washington Student Achievement Council's State Approving Agency (WSAC/SAA) for enrollment of those eligible to receive benefits under Title 38 and Title 10, USC.

CBC does not and will not provide any commission, bonus or other incentive payment based directly or indirectly on success in securing enrollment or financial aid to any persons or entities engaged in any student recruiting or admissions activities, or in making decisions regarding the award of student financial assistance.

Compliance with VA's 85/15 Rule: Schools should limit student enrollment to 85 percent supported students per cohort. In the event that a G.I. Bill® beneficiary wishes to enroll in a class that has already reached the 85 percent cap, they may do that but will not be eligible for VA funding. Chapter 35 and 31 students may still enroll even if the 85 percent has been realized.

In accordance with Title 38 US Code 3679 subsection (e), this school adopts the following additional provisions for any students using U.S. Department of Veterans Affairs (VA) Post 9/11 G.I. Bill® (Ch. 33), Dependents Education Assistance (Ch. 35), or Veteran Readiness and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not:

- Prevent the student's enrollment
- Assess a late penalty fee to
- Require student secure alternative or additional funding
- Deny their access to any resources (access to classes, libraries or other institutional facilities) available to other students who have satisfied their tuition and fee bills to the institution

However, to qualify for this provision, such students may be required to:

- Produce the Certificate of Eligibility by the first day of class
- Provide written request to be certified
- Provide additional information needed to properly certify the enrollment as described in other institutional policies

G.I. Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website.

Workforce Education Center (WEC)

The Workforce Education Center (WEC) assists students with tuition, book assistance, housing assistance and financial help for other barriers that may keep you from being successful. For students looking to re-career, train while on unemployment or train while on Washington state food/cash assistance, WEC may have a program that can help you. WEC is located in the T Building, Room T581. More details are available on the Workforce Education Center webpage.

Basic Food, Employment, & Training (BFET)

Students enrolled in a professional/technical program who are currently receiving or are eligible to receive food benefits from the state of Washington are eligible for these additional benefits and resources through BFET:

- Help maintaining eligibility for food assistance while attending school
- Washington State Department of Social and Health Services' childcare subsidy programs
- Academic/career planning
- Referrals to on-campus and off-campus resources
- Tuition and other support assistance (according to documented need)

For more information, please call the Workforce Education Center at 509-542-4719.

Early Achievers Grant

The Early Achievers Grant serves students in the Early Childhood Education program who are currently working in the field and who need the CBC credential to stay licensed with the state. Early Achievers Grant services include:

- Educational planning assistance
- Tuition and book assistance that can pay for all certifications and even an AAS degree

For more information, please contact the Workforce Education Center at 509-542-4446 or 509-542-4587.

Opportunity Grant

The Opportunity Grant serves students who are low income and enrolled in one of several specific programs including Automotive Technology, Health Sciences, Computer Science and Agriculture Management. Opportunity Grant services include:

- Career and educational planning assistance
- Tuition assistance for up to one year of classes
- Book assistance

For more information, please contact the Workforce Education Center at 509-542-4446 or 509-542-4587.

Worker Retraining

Tuition assistance and books may be available for students who meet one of the following criteria:

- Currently receiving or have exhausted unemployment benefits within the last 48 months
- Have become a "displaced homemaker", meaning they were dependent on another family member's income, that income is no longer available and they are either unemployed or underemployed
- Discharged from the U.S. Armed Services within the last 48 months or are going to be released from active duty within the next 18 months
- Are a dislocated worker who is currently working a temporary stop-gap job with an income loss of 20 percent or more
- Are currently employed but at risk for unemployment, meeting **two of the following criteria**:
  1. Your job is listed as not in demand;
  2. You need training to remain working for your current employer;
  3. And/or you have less than 45 college credits
- Have been self-employed and experienced a lack of work due to the economy

For more information about program eligibility, call the Workforce Education Center at 509-542-4446 or visit the Worker Retraining webpage.

WorkFirst

The WorkFirst program provides services and funds to eligible parents currently receiving cash assistance (Temporary Assistance to Needy Families, TANF). WorkFirst services include:

- Career and educational planning assistance
- Financial assistance for tuition, fees and books for basic skills, vocational, technical and professional training programs

For more information, please contact the Workforce Education Center at 509-542-4719 or 509-542-4531.

Student Assistance

The following services are available to qualifying students attending our college:

- Emergency Assistance Funds
- Childcare Reimbursement
- Travel Reimbursement

To find out more information or apply for assistance, email moneyforyou@columbiabasin.edu or visit the Money for You webpage.

Safety & Security Information

Campus Safety & Security

Columbia Basin College strives to provide a safe and secure environment for students, staff and visitors. The Campus Security department enforces College parking and traffic regulations, provides SAFEWALKS, jump-starts vehicles, retrieves keys locked in vehicles, maintains lost and found articles and assists local, state and federal law enforcement agencies.

In an emergency, 911 is called. On-campus emergency assistance is available by calling 509-542-4819 or ext. 7777. Security personnel routinely conduct patrols of CBC facilities and parking lots and provide emergency assistance as necessary. Security officers have authority to request identification and to determine whether individuals have lawful business at CBC.

Coordination With Law Enforcement

CBC maintains close coordination with local law enforcement agencies at all CBC locations and activities. CBC's security officers have the same arrest capability as a citizen. Criminal incidents are referred to the local police who have jurisdiction on the CBC campus. All College personnel and students should immediately report any crime, suspicious circumstance/person or emergency to the 911 Dispatch Center or to the CBC Security department at 509-542-4819 or via the Crime Incident Report form. Prompt reporting will ensure timely warning notices on campus and timely disclosure of crime statistics.

Contact Campus Security if you:

- Are a victim of a crime that has occurred on campus
- See a suspicious activity or a suspicious vehicle on campus
- Have information about a theft of property
- Have been involved in an auto accident or have witnessed one
- Smell smoke or fumes inside a building
- See smoke or flames inside a building
- Have been injured and/or need first aid
- Notice any other safety or security related problems

The Clery Act

The Clery Act requires that colleges provide information to prospective and current students and employees about its campus safety policies, procedures and statistics on certain crimes in an Annual Security and Fire Report. CBC obtains data for the Annual Security and Fire Report that is required by the Clery Act through a collaborated effort with various law enforcement agencies and the local fire department. The Annual Security and Fire Report can be located on the Campus Security & Safety webpage.

Printed copies of this report are available by request from CBC Security. The report on safety and crime statistics is also available by contacting the Columbia Basin College Vice President for Administrative Services at 2600 North 20th Avenue, MS-A13, Pasco, WA, 99301 or at 509-542-4408.

Safety Alerts

In the event that a situation arises, either on- or off-campus, that, in the judgment of the President's Cabinet and the Campus Security office, constitutes an ongoing or continuing threat, a campus-wide timely warning will be issued. The notification could be in the form of media alerts (TV/radio), social media posts (Facebook/Twitter), email, text messages, posters/flyers and/or notices in the student bulletin. Sign up for emergency notifications via email and/or text message on the Campus Security & Safety webpage.

Disciplinary Action

Any student who commits an act in College facilities, which is punishable as a misdemeanor or a felony, such as sexual assault, under Washington state law, may be subject to appropriate disciplinary process procedures outlined within the Student Code of Conduct. These proceedings may include the opportunity of the accused and accuser to have others present during a disciplinary proceeding and notification of the final determination resulting from the proceeding.

Sexual Offender Notification

Sexual offenders, Level I, II and III, are required by law to register with the county sheriff in the county where they reside. The law requires that they also inform the county sheriff if they register for school. The county sheriff, in turn, is required to notify the school of sex offenders who may have registered to attend classes. Any sex offender who wants to enroll at CBC must meet with the Assistant Dean for Student Conduct & Student Life prior to the start of their first classes. These notifications are intended to inform the campus community and to promote personal safety rather than create panic.

CBC is bound by state law to be an open door admission institution and only in those situations where a prospective or enrolled student is determined to be disruptive to the educational environment or would not benefit from enrollment will admission be denied or revoked.

Notifications of sex offenders enrolling at CBC are received from the Franklin or Benton County Sheriff 's Department and are sent to CBC's Campus Security office or the Assistant Dean for Student Conduct & Student Life. Notification to the College community will be made pursuant to CBC's Sexual Offender Notification Procedure, which can be located on the Sexual Offender Notification webpage. When a Level III sex offender is enrolled, their picture will be posted around campus, and a notification will be sent to all students and employees.

Title IX

CBC is committed to fostering a safe, productive learning environment. The College's Title IX Grievance Policy and Non-Discrimination & Harassment Policy and Procedure prohibit discrimination on the basis of sex, including sexual misconduct, harassment, domestic and dating violence, sexual assault and stalking. We understand that sexual violence can undermine students' academic success and we encourage students who have experienced any form of sexual misconduct to talk to someone about their experience, so they can get the support they need. The College offers information and referrals for victims of sexual misconduct. Victims of sexual misconduct are encouraged to report the incident as soon as possible to the Vice President for Human Resources & Legal Affairs/Title IX Coordinator located in the Human Resources office in the A Building on the Pasco campus. Reports can also be made by emailing vphr@columbiabasin.edu or by calling 509-542-5548. More information is available on the Title IX webpage.

Severe Weather

Although it is rare, if you suspect that CBC may be closed, please check one of these resources:

- CBC Alert via our Emergency Notification System (ENS): sign up (Security & Safety webpage) to receive emergency notifications via email and text messaging
- CBC website homepage
- CBC Facebook page
- CBC main line: 509-547-0511; if the College is closed, the message will state that CBC is closed

Information will only be posted or announced if CBC should close. Closures, delayed starts or early releases may be announced at any time due to changing weather conditions. However, we make every effort to announce morning closures by 5:15 am and announce evening class cancelations by 3:30 pm. Employees and students are expected to use reasonable judgment regarding traveling in inclement weather/adverse road conditions.

Safety & Security Information

Student Identity Theft & Fraud

Columbia Basin College reserves the right to revoke admission, reconsider an admissions decision, or re-evaluate an application if it is determined that the information provided by the applicant—whether related to admissions, enrollment, or financial aid—is materially incomplete or false. Based on such findings, the College may also rescind admissions, deny, cancel enrollment, or revoke eligibility for financial aid.

In accordance with State Board for Community and Technical Colleges (SBCTC) guidelines, information found to credibly fraudulent will be reported to SBCTC and Department of Education Office of Inspector General (OIG).

Graduation Information

Graduation

Students must submit a graduation application in order to be awarded a degree or certificate upon the fulfillment of the completion requirements. Students are encouraged to meet with their completion coach one quarter before they plan to complete all their requirements to graduate. Please note that one graduation application must be filed for each degree or certificate. Graduation applications must be completed and signed by the student's completion coach. Students may graduate at the end of any quarter. Students participating in graduation in June will have completed their degree/certificate during the most recent fall, winter or spring quarters, or the summer following graduation.

In order to receive a degree or certificate from CBC, students must fulfill the following requirements:

- For degrees/certificates with multiple concentrations or emphases, students may only earn one concentration or emphasis.
- Complete all degree/certificate requirements as stated in the College catalog (refer to the Catalog Option Policy below for more information regarding catalog degree requirements).
- A course may be applied to only one requirement within the same degree or certificate.
- Complete at least one-third of the total credits required for an associate degree/certificate or 45 credits for a CBC bachelor's degree in residence at CBC. Some ACPL/Dual Credit courses have restrictions related to the residency requirement. See the ACPL section of this catalog for more information.
- Earn a minimum grade of 1.0 in courses completed for degrees/certificates, unless otherwise ntoed.
- Earn a cumulative college-level* GPA of 2.0 or above in course work completed at CBC.

College-level courses are numbered 100 and above at CBC. Course numbering at other colleges may vary.

Catalog Option Policy

Students applying for graduation must comply with the requirements of the College catalog. Students may choose to apply for graduation under the catalog year in effect at the original time of enrollment or any subsequent catalog, provided the student is not absent from CBC for a period of six or more consecutive quarters (including summer quarter). After an absence from CBC of six or more consecutive quarters (including summer quarter), the following conditions apply:

- Students may apply for graduation under the catalog year in effect at the time of re-enrollment or any subsequent catalog.
- Any catalog that was in effect prior to re-enrollment would not be eligible for graduation. Catalogs published during the student's absence from CBC are not options for returning students.
- Students may use a prior year catalog to apply for graduation after an absence of six or more consecutive quarters (including summer quarter) only if they completed the degree requirements under that catalog prior to the absence.

For students reverse transferring credits from another institution, those credits must be completed within six consecutive quarters (including summer quarter) of their absence from CBC to apply for graduation under a catalog year in effect during their time at CBC. If the absence is longer than six consecutive quarters (including summer quarter), the student may apply to graduate using the catalog requirements at the time of completion of the last transfer course needed.

Appeals to the catalog option policy may be submitted to the Office of Instruction for review by the Vice President for Instruction. To appeal, include your full name, student ID number, a written explanation of the rationale for the appeal and any relevant evidence supporting the appeal. Electronic documents may be sent from your official CBC student email to instruction@columbiabasin.edu. Appeals will be addressed within 15 business days of the receipt of the appeal. Responses will be emailed to your official CBC email account. All decisions made in the appeal process by the Vice President for Instruction will be final.

High School Diploma

CBC may issue a high school diploma or certificate when one of the following criteria is met:

- An individual satisfactorily completes the requirements for high school completion.
- An individual enrolls through the Running Start program and satisfactorily completes an associate degree including an Associate in Arts and Sciences degree, Associate in Science degree or Associate of Applied Science degree. Students must indicate this request on their graduation application. (These individuals are not required to complete the Washington State Board of Education's graduation requirements.)
- An individual, 16 years or older, satisfactorily completes an associate degree, including an Associate in Arts and Sciences degree, Associate in Science degree or Associate of Applied Science degree. Students must indicate this request on their graduation application. (These individuals are not required to complete the Washington State Board of Education's graduation requirements.)

Degree and Certificate Overview

Baccalaureate Degrees

Minimum 180 credits

Columbia Basin College offers two baccalaureate degree types: Bachelor of Applied Science (BAS) and Bachelor of Science (BS). The BAS degrees are offered in Applied Management (with optional concentrations in Agriculture or Healthcare Administration), Community Health, Cyber Security, Dental Hygiene, Health Physics, Software Development, Project Management (with an optional concentration in Construction), Respiratory Therapy, and Teacher Education (with early childhood education endorsement). The Bachelor of Science degrees are offered in Nursing and Computer Science.

Many two-year (AA, AS, AAS) degree-holders have reached a plateau in their career, unable to advance because they cannot meet the bachelor's degree requirements needed for many supervisory positions. The Washington State Legislature authorized the community college baccalaureate program to increase access to bachelor's degrees for Washington citizens. In particular, AAS graduates whose credits are generally non-transferable to four-year institutions can pursue these degrees without having to start their college education from scratch, allowing full-time students to complete the upper-level degree in approximately two years.

All BAS and BS degrees offered at CBC are approved by the Northwest Commission on Colleges and Universities and the Washington State Board for Community and Technical Colleges.

Students pursuing a BAS or BS degree must complete a minimum of 180 college-level course credits, which includes a minimum number of upper-level (300 and 400) course credits and general education course credits specified by each program.

Associate Degrees

Upper-level (300 and 400) course credits may not be used to satisfy associate degree requirements

Associate of Applied Science (AAS)

Minimum 90 credits

The Associate of Applied Science (AAS) degree is earned by students who complete a prescribed two-year professional/technical program. Thirty-three percent of required degree credits must be earned at Columbia Basin College. The AAS degree is not designed for transfer, although some classes may be accepted for transfer by baccalaureate degree institutions. For degree requirements, students should work closely with their completion coach.

Associate in Arts and Sciences (AA/DTA)

90 credits

The Associate in Arts and Sciences (AA) degree is a direct transfer agreement (DTA) designed for students who plan to transfer to a four-year institution after completing the first two years of study at CBC. This degree meets the Inter-college Relations Commission (ICRC) guidelines for direct transfer degrees. If 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. Students are encouraged to meet with their completion coaches early in their academic planning to review the degree options listed below and design a plan that best fits their educational and transfer goals.

Associate in Arts and Sciences in Biology (AA/DTA/MRP)

90 credits

The Associate in Arts and Sciences in Biology degree is a direct transfer agreement (DTA), created to aid students interested in transferring into a biology program at a number of baccalaureate institutions. This degree is intended to ensure that graduates of Columbia Basin College are as well-prepared as their counterparts at four-year colleges. The transferability of this degree is backed by a statewide articulation agreement. This degree will fulfill the general education requirements at the public Washington state transfer institutions. Apart from the requirements embedded within the degree, it is recommended that students check specific requirements of their intended transfer schools.

Associate in Arts and Sciences in Business (AA/DTA/MRP)

90 credits

As a result of the work by members of the Washington community and technical college system and public baccalaureate institutions, the Major Related Program (MRP) agreements were developed. These direct transfer agreements (DTA) place transfer students from community colleges on comparable footing with direct entry counterparts at four-year institutions within Washington state. Students who complete the requirements for an MRP will have satisfied the lower division general education (or core) requirements and lower division math and science requirements to the same extent as direct-entry university students pursuing similar goals.

Associate in Arts and Sciences in Computer Science (AA/DTA/MRP)

90 credits

The Associate in Arts and Sciences in Computer Science degree is a direct transfer agreement (DTA), created to aid students interested in transferring into a computer science program at a number of baccalaureate institutions. This degree is intended to ensure that graduates of Columbia Basin College are as well-prepared as their counterparts at four-year colleges. The transferability of this degree is backed by a statewide articulation agreement. This degree will fulfill the general education requirements at the public Washington state transfer institutions. Apart from the requirements embedded within the degree, it is recommended that students check specific requirements of their intended transfer schools.

Associate in Arts and Sciences in Math Education (AA/DTA/MRP)

90 to 92 credits

The Associate in Arts and Sciences in Math Education degree is a direct transfer agreement (DTA), 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 fulfill entrance requirements into a school of education. As a result, there is little room for electives. This degree is intended to ensure that graduates of Columbia Basin College are as well-prepared as their counterparts at four-year colleges. The transferability of this degree is backed by a statewide articulation agreement with teacher-training universities. This degree fulfills the general education requirements at the public Washington state transfer institutions. Apart from the requirements embedded within the degree, it is recommended that students check specific requirements of their intended transfer schools. This is especially true for the area of field experience, since teacher certification institutions vary in terms of the quality and quantity of experience required.

Associate in Arts and Sciences in Pre-Nursing (AA/DTA/MRP)

Minimum 90 credits

The Associate in Arts and Sciences in Pre-Nursing degree is a direct transfer agreement (DTA), created for individuals drawn to a nursing career or healthcare professionals seeking to advance their education. This degree creates a streamlined pathway to a Bachelor of Science in Nursing (BSN) program at four-year universities in Washington state, and is specifically crafted for transfer students.

Degree and Certificate Overview

The 90-credit degree program instills students with fundamental knowledge in English, psychology, mathematics and science, strategically designed to prepare them for entry into select pre-licensure Nursing programs as a junior. Emphasizing individualized guidance, students collaborate with dedicated completion coaches to select suitable courses and satisfy degree requirements.

Upon fulfilling the degree requirements, graduates may explore transfer options to esteemed Washington state institutions, including the University of Washington, Washington State University, Pacific Lutheran University, Seattle Pacific University, Seattle University and Walla Walla University. However, it's crucial to note that while this degree offers a stepping-stone, it does not guarantee admission to any baccalaureate university or eligibility to sit for the Registered Nurse National Council Licensure Examination (NCLEX-RN).

The completion of a BSN degree at a university is necessary to become a Registered Nurse. It's essential for students to work with a transfer advisor at their intended institution to understand specific admission requirements. Moreover, students need to remain abreast of potential curriculum changes by regularly consulting with the Nursing department or completion coach.

The Associate in Arts and Sciences in Pre-Nursing (AA/DTA/MRP) degree at Columbia Basin College lays a robust foundation for aspiring nursing students, marking the commencement of a promising journey in the rewarding field of nursing.

Associate in Science (AS)

Minimum 90 credits

The Associate in Science (AS) degree is a local transfer degree designed for students who plan to transfer to a four-year program at CBC or at an institution with which CBC has an articulation agreement after completing the first two years of study at CBC. If admitted to a program at an institution with an articulation agreement, the degree holder will have fulfilled most of the lower-division general education requirements of baccalaureate degree program offered by that college or university, and their class standing will be determined by the articulation agreement. Students are encouraged to meet with their completion coaches early in their academic planning to review the degree options and design a plan that best fits their educational and transfer goals.

Associate in Science-Transfer (AS-T)

Minimum 90 credits

The Associate in Science Transfer (AS-T) degree is based upon an agreement between CBC and many colleges and universities in the state of Washington. This degree is an efficient, pre-designed educational path for students who wish to complete a baccalaureate program in several of the science fields. The AS-T will not substitute for many of the general university requirements, but will allow CBC students to enter a participating four-year college or university with 90 credits, junior standing and the majority of major prerequisites completed. Students completing the degree must be prepared to complete any remaining general education requirements along with remaining program or graduation requirements during their junior or senior year of academic study.

There are two tracks to this degree. One track is for students majoring in biological sciences, environmental sciences, chemistry, geology or earth science. The second track is designed for students majoring in engineering, physics or atmospheric sciences. Both tracks are part of a transfer agreement, which includes priority admission for resident transfer students to any of the state-funded baccalaureate institutions.

Associate in Science – Transfer, Track 2 (AS-T2/MRP) in Bioengineering and Chemical Engineering

95 to 101 credits

This degree is designed for students intending to transfer into bachelor's programs in bioengineering, chemical engineering or related fields such as biomass resource science. It provides strong foundational coursework in calculus, physics, chemistry (including organic chemistry and biology options) and core engineering principles such as thermodynamics. Students should work closely with their completion coach to select specialization courses aligned with their intended major and transfer institution. Successful completion of this AST-2/MRP positions students to enter their chosen university prepared for the rigors of upper-division engineering coursework.

Associate in Science – Transfer, Track 2 (AS-T2/MRP) in Civil and Mechanical Engineering

105 to 108 credits

This degree prepares students for transfer into civil, mechanical, environmental, aeronautical or industrial engineering programs. It features a robust curriculum in calculus, physics, chemistry and essential engineering courses such as statics, dynamics and mechanics of materials. Students also choose from a selection of targeted specialization courses—like thermodynamics and advanced calculus—in consultation with their completion coach to ensure compatibility with their intended university program. If admitted to receiving institution, AST-2/MRP graduates of this pathway enter their bachelor's programs with junior standing and most lower-division prerequisites completed.

Certificates

Upper-level (300 and 400) course credits may not be used to satisfy certificate requirements

One-Year Certificate

45 to 89 credits

Certificate programs are designed to provide recognition for students who have not completed an Associate in Applied Science degree but are interested in training and instruction in specialized areas. One-Year Certificates incorporate specific general education requirements, as well as the core course content. Students earning a One-Year Certificate with 45 to 89 credits are eligible to participate in the graduation ceremony and may qualify for honors designation. Not all certificates are eligible for financial aid. Please check the Graduation Application webpage for current information.

Certificate

20 to 44 credits

Certificate programs are designed to provide recognition for students who have not completed an Associate in Applied Science degree but are interested in training and instruction in specialized areas. Certificates contain the core course content but do not contain the requisite number of general education credits. Students earning a Certificate with 20 to 44 credits do not qualify for honors designation. Not all certificates are eligible for financial aid. Please check the Graduation Application webpage for current information.

Short-Term Certificate

0 to 19 credits

Short-term certificates recognize students' mastery of information and skills important to employment and career advancement. Students earning a Short-Term Certificate with 0 to 19 credits do not qualify for honors designation. Short-term certificates are not eligible for financial aid.

Instructional Areas

At CBC, as at most colleges and universities, instructional departments offer areas of study (e.g., English, sociology, physics). Related departments are combined into larger divisions, also called Schools (e.g., Arts, Humanities & Communication, Health Sciences, Math, Science & Engineering). Students who have questions about the subject matter, requirements, permission to register, etc. for a particular course or program of study are encouraged to contact the appropriate instructional office.

Office of Instruction

A Building, Room A270
509-543-1495
instruction@columbiabasin.edu
Vice President: Michael Lee

School of Arts, Humanities & Communication

P Building, Room P100
509-542-5531
artshumanitiescommunication@columbiabasin.edu
Dean: Susan Shelangoskie

Instructional Programs

- Communication Studies
- English
- Music
- Philosophy
- Reading
- Spanish Community Interpreting
- Theatre
- Visual Arts
- World Languages:
  - American Sign Language
  - French
  - Japanese
  - Spanish

School of Business

B Building, Room B119
business@columbiabasin.edu
Dean: Matthew Green

Instructional Programs

- Accounting
- Applied Management
- Business
- Digital Marketing
- Economics
- Healthcare Administration
- Logistics & Supply Chain Management
- Project Management

School of Career & Technical Education

CTE Building, Room CTE 101
509-542-4804
careertechnicaleducation@columbiabasin.edu
Dean: Jesus Mota

Instructional Programs

- Administrative Assistant
- Apprenticeships
- Automotive Technology
- Blueprint Reading
- Computer Applications
- Electronics
- Hospitality
- Industrial Drawing
- Industrial Technology
- Manufacturing Technology
- Nuclear Technology:
  - Health Physics
  - Instrumentation and Control
  - Non-Licensed Operator
  - Radiation Protection Technician
- Occupational Safety & Health
- Welding Technology

School of Computer Science

B Building, Room B119
Email: computerscience@columbiabasin.edu
Dean: Matthew Green

Instructional Programs

- Computer Science
- Software Development
- Cyber Security

School of Education

X Building
Phone: 509-542-5600
education@columbiabasin.edu
Director: Constantino Montes

Instructional Programs

- Early Childhood Education
- Education

School of Health Sciences

HSC Building, Room HSC 209
509-544-8300
healthsciences@columbiabasin.edu
Dean: Doug Hughes

Instructional Programs

- Community Health
- Dental Assisting
- Dental Hygiene
- Emergency Medical Technician
- Expanded Functions Dental Auxiliary
- Fire Science
- Health Sciences
- Medical Assistant
- Medical Imaging Technology
- Nursing
- Nursing Assistant
- Paramedic
- Phlebotomy
- Pre-Nursing
- Radiologic Technology
- Respiratory Therapy
- Spanish Medical Interpreting
- Sterile Processing Technician
- Substance Use Disorder Professional
- Surgical Technology

School of Math, Science & Engineering

T Building, Room T202
509-542-4783
mathscienceengineering@columbiabasin.edu
Dean: Roderick Taylor

Instructional Programs

- Agricultural Food Systems
- Agriculture
- Astronomy
- Biology
- Chemistry
- Engineering Technology
- Environmental Science
- Exercise Science
- General Engineering
- Geology
- Health Education
- Horticulture
- Mathematics
- Nutrition and Food Science
- Physical Education
- Physical Education Professional
- Physical Geography
- Physics
- Pre-Professional:
  - Occupational Therapy
  - Pre-Dental
  - Pre-Medicine
  - Pre-Pharmacy
  - Pre-Physical Therapy
  - Pre-Vet

Student Services

H Building, Room HN-136
509-542-4595
advising@columbiabasin.edu
Dean: Lane Schumacher

Instructional Programs

- First Year Introduction
- Human Development

School of Social & Behavioral Sciences

SWL Building, Room SWL 201
509-544-4914
socialbehavioralsciences@columbiabasin.edu
Dean: Katherine Banks

Instructional Programs

- Anthropology
- Criminal Justice and Forensics
- History
- Human Geography
- Intercultural Studies
- Political Science
- Pre-Professional:
  - Pre-Law
- Psychology
- Social Science
- Social Work
- Sociology
- Women's Studies

Transitional Studies

A Building, Room A235
509-542-4562
transitionalstudies@columbiabasin.edu
Dean: Daphne Larios

Instructional Programs

- Adult Basic Education (ABE)
- GED® in English and Spanish
- English Language Acquisition (ELA)
- High School Academy (HSA)
- High School Completion (HSC)
- High School+ (HS+)
- Integrated Basic Education Skills Training (I-BEST)
- Soar to Success/Open Doors (S2S)

College Survival Guide

academic concentration
Specialization in one academic discipline or field of study. See also major.

academic year
Refers to an academic school year that is divided into four quarters beginning with summer quarter; followed by fall, winter and spring quarters.

accreditation
Certification that a school or an instructional program meets standards set by an outside reviewing organization. Many forms of financial aid are available only to students attending accredited institutions.

admission
Approval for a student to attend an educational institution. The admission process usually involves an application and may require transcripts or other supporting documents.

application
The first step in requesting admission to an institution of higher education. Usually there is a form to fill out by a certain deadline; sometimes there is an application fee to pay.

articulation
A formal agreement between high schools and colleges or between community/technical colleges and other four-year colleges or universities, designed to make it easy for students to move from one educational level to the next without any gaps or repetition in their coursework. Articulation agreements may help students transition into the institution as a whole, or into specific programs at junior status in a specific major.

assessment
A method used to determine a student's knowledge or skill level, often through an exam, to identify the most appropriate starting point in a sequence of courses such as English, world languages, math or science. At CBC, assessment also refers to the evaluation of skills and abilities as part of the college's general education learning outcomes.

associate degree
A diploma earned after successfully completing a required program of study in a community or technical college. It typically requires 90 or more credits and takes two years of full-time study. Some associate degrees enable students to continue on to bachelor's degrees, others prepare students to go directly into the workforce in a professional/technical field.

asynchronous online
Course instruction is provided online without specific days and times assigned to the class. All students are expected to complete coursework online according to the deadlines set by the course instructor.

audit
A student who audits a course formally registers for it and attends class sessions but earns no credit and has no obligation to complete homework projects or take tests.

baccalaureate or bachelor's degree
A college degree that can often be earned by following a four-year instructional program. It typically requires 180 or more credits.

campus
The land and buildings that a college or university uses for instruction or student services.

catalog
A comprehensive resource publication that lists college regulations, program and course descriptions, degree and graduation requirements, transfer requirements and other essential information.

centering equity
This means that an organization has prioritized equity as a core value; this also means that it is the center of learning, teaching, student success as well as the organization's employees' success. It involves our ways of being and ways of doing that ensure we meet people where they are on their educational journey to ensure that all students have access to and participate in quality robust learning opportunities. Educators are intentionally making sure that students' perspectives and lived experiences are represented and considered in curriculum content, decision making, and the focus on institutional practices to ensure successful outcomes for students.

certificate
A document granted by a college or university indicating that a student has successfully completed specified courses and requirements (compare with degree, which usually requires more time and coursework).

class
(1) A specific group of students meeting for specific instructional purposes. It can mean the whole series of scheduled meetings (Dr. Owen is teaching two English Composition classes this quarter) or just one session (we had a guest speaker in my Economics class today).
(2) Often means the same as course (she's taking classes in Welding Technology).
(3) A group of students who start at a school together and expect to complete their studies at the same time (he's in the graduating class of 2025).

class permissions
A code that students receive from the division office allowing them to register for a class that requires permission for a variety of reasons. Some examples include permission required, not meeting a prerequisite, overloading the class capacity, and enrolling after the last day to register for a class.

class schedule
(1) A publication listing detailed course and section information (instructional modalities, days, times, room numbers, etc.) for a specific semester or quarter. The published schedule is subject to change. Students should check their schedule to confirm details.
(2) The specific courses that an individual student is taking or plans to take for a given semester or quarter.

college-level study
Curricula and instruction that assume the student has already mastered certain skills and abilities and has the level of commitment needed for postsecondary schoolwork. Compare to developmental-level study. At CBC, college-level courses are numbered 100 or above.

common course numbering
The Common Course Numbering system identifies courses that are commonly shared among Washington community and technical colleges. Visit the Washington State Board for Community and Technical Colleges website for more information.

competency
In competency-based courses or instructional programs, students must demonstrate certain skills and abilities (instead of just earning passing grades in classes) before moving from one level to the next or earning the final certificate or degree.

completion coach
A staff member who assists students with planning academic schedules as well as their overall programs of study. Completion coaches may also help with career planning, connection to campus/community resources, and general student success. See also counselor.

counselor
A member of the college faculty who has special training in guidance and who assists students in academic or personal matters. See also completion coach.

course
(1) Often means the same as class.
(2) A planned sequence of instruction in a particular topic; may include class meetings, lectures, readings, demonstrations, exercises, assignments, examinations, etc.; offered repeatedly to different groups of students.

credit
A unit of measure for college work. Generally speaking, one credit hour represents one hour of classroom instruction each week for one term, plus the study time, homework, etc. that go along with it. At CBC, credits are measured on a quarterly basis unless otherwise noted.

credit load
The total credit value of the courses a student is currently enrolled in.

cross-listed course
A single course which is offered for credit in more than one academic discipline. A student may not use equivalent cross-listed courses for the same graduation requirement.

curriculum (plural: curricula)
(1) An established sequence of information to be learned, skills to be acquired, etc. in a specific course or in a complete instructional program.
(2) Collectively, all the courses offered by a department, division or college.

College Survival Guide

dean
An academic administrator or official at a school, college or university, especially one with responsibility for students or faculty.

degree
A rank conferred by a college or university and earned by a student who has successfully completed specified courses and requirements (compare with certificate, which usually requires less time and coursework).

department
An organizational unit within a college or university, offering courses about closely related topics (at a small school there may be one world languages department, at a large school there may be separate departments for Spanish, French, Japanese, etc).

developmental skills
Usually refers to a level of competency —specifically in reading, writing and mathematics—which is required for successful college-level work in all fields of study.

developmental-level study
Instruction that helps students improve their English, math, and reading abilities and prepare them for college-level study. At CBC, developmental-level courses are numbered 99 or below.

diploma
An official document issued by a college or university indicating that a student has earned a certain degree or certificate.

distribution requirements
Course requirements included in an instructional program to make sure that the student is well-rounded and gains some perspective outside their specific focus or major.

diversity
All the ways in which people differ, and it encompasses all the different characteristics that make one individual or group different from another.

division
An organizational unit within a college or university consisting of two or more related departments.

drop
To cancel registration in a course after enrolling into it. Students often add and drop courses before settling on a class schedule for a particular quarter. See also withdrawal.

dynamic dated session/classes
Classes with dynamic dated sessions are classes that don't follow the academic deadlines. They may start/end on different dates and have different deadlines.

educational equity
Every student receives what they need to develop their full academic and social potential. When we work towards equity, we are ensuring equally high outcomes for all participants in our educational system by removing the predictability of success or failures that currently correlates with any social or cultural factor (such as race, gender identity, age, socioeconomic status, sexual orientation, home language, nationality, religion or other dimensions of identity); This requires us to interrupt inequitable practices, examine biases, and create inclusive multicultural educational environments.

ELA (English Language Acquisition)
Usually refers to developmental-level instruction in English language skills for non-native speakers.

elective
A course that is not required for a particular instructional program. Many programs require a certain number of elective credits, and many recommend certain electives for students to choose from.

enrollment
(1) The process of signing up and paying for courses. See also registration.
(2) The total number of registered students attending classes in a particular instructional program or the whole school.

evaluation
(1) The process and standards by which an instructor judges a student's work and assigns a grade.
(2) At CBC, the process of determining that a student has met all requirements to complete a degree or certificate and is ready to graduate.

face-to-face
Course instruction is provided at a specific location on a specific day and time in person. All students are expected to meet in real time at scheduled class times, in-person, in an on-campus location.

faculty
The instructors or teaching staff at a college. At CBC, librarians and counselors are considered faculty members along with classroom instructors.

financial aid
Money available from various sources to help students pay college expenses. These funds come as loans, grants or scholarships from the state or federal government or other organizations. Work Study is also a form of financial aid.

FAFSA (Free Application for Federal Student Aid)
The application required for students to be considered for federal student financial aid. The FAFSA is processed free of charge and is used by most state agencies and colleges. A new electronic application is required for each academic year. FAFSA applications are available at fafsa.gov.

freshman
A student in the first year of a typical four-year bachelor's degree program (or one who has earned fewer than 45 quarter credits or 30 semester credits so far).

GED® (General Education Development)
A certificate representing the equivalent of a high-school diploma.

general education
At CBC, a set of requirements designed to help every graduating student achieve competence in a variety of learning outcome areas.

grade
A formal indicator of a student's overall performance in a course, recorded on the official transcript. Traditional letter grades are A for outstanding achievement, B for high achievement, C for satisfactory achievement, etc.

grade point average (GPA)
The GPA is computed by multiplying the number value of the grade earned in each course (generally, A=4, B=3, C=2, D=1, F=0) times the number credits for each course, then dividing the result by the total number of credits taken.

graduation
(1) The formal completion of an instructional program or course of study. Students graduate after successfully meeting all credit and course requirements and other criteria set by the college or university.
(2) The ceremony at the end of an academic year when students receive their degrees or diplomas. This may also be called commencement.

grant
A type of financial aid that does not have to be paid back after the student leaves school. Grants are available through the federal government, state agencies and educational institutions.

Health Science Center (HSC)
Many of CBC's Health Sciences classes are located in a facility in Richland at 891 Northgate Drive. See also Richland campus.

hybrid course
Course instruction is provided at a specific location on a specific day and time (as with face-to-face classes), and part of the course is also completed online either synchronously or asynchronously, depending on the course content. All students are expected to follow specific course policies and guidelines individually set by the course instructor.

hyflex course
Course instruction is provided in three different modalities: face-to face, synchronously online, or asynchronously online, and students have the option to attend each class period in any of three modalities. Students sign up for one single class and choose how, when, and where they attend class to have an equitable learning experience regardless of the modality of their choice.

incomplete
A temporary grade given to a student who is doing satisfactory work but is forced by illness or other emergency to miss an exam or a major assignment. The instructor and student arrange how and when the student will complete the work and have the I changed to a final grade. At CBC, the student must finish the incomplete work by the 20th calendar day after the beginning of the next quarter (does not include summer quarter).

independent study
An arrangement that allows a student to earn college credit through individual study and research, usually planned with and supervised by a faculty member.

internship
A supervised short-term apprenticeship or temporary job in a real-world setting closely related to a student's field of study. The student may or may not be paid but earns college credit for the work experience. See also practicum.

junior
A student in the third year of a typical four-year bachelor's degree program (or one who has earned 90-135 quarter credits or 60-90 semester credits so far).

late start classes
Classes that begin after the official first week of the quarter.

learning outcomes
The knowledge, skills and abilities students will acquire at the course, program and institutional levels.

loans
A type of financial aid that must be repaid to the government agency or other lending organization when the student leaves school.

lower division
The courses students are generally expected to complete during the first two years of a typical four-year bachelor's degree program.

major
Specialization in one academic discipline or field of study. At CBC, you will choose one of our eight school pathways.

Medical Science Center (MSC)
Many of CBC's Health Sciences classes are located in a facility in Richland at 940 Northgate Drive. The Kadlec Regional Medical Center Family Residency Clinic is co-located at the MSC. See also Richland campus.

noncredit
Courses or instructional programs that do not require extensive homework or examinations and do not offer college credit. Students frequently take noncredit courses for basic skills improvement, training, career enhancement or personal enrichment.

open admissions
The policy of some colleges to admit nearly all applicants, regardless of high school grades and admission test scores. It means different things at different schools. Community and technical colleges in Washington state admit anyone who is over 18 or has a high school diploma or GED®.

pass/passing
At most schools, a student will earn credit and pass a class with a grade of A through D. A student who earns an F grade fails the class and earns no credit. Different schools have different standards, so a student who passes a class with a D may or may not be able to use that class to meet prerequisites or fulfill requirements.

placement
The appropriate course level for a student to begin a sequence, based on their existing skills, commonly used in foundational subjects like mathematics or English composition. See also assessment.

postsecondary
Refers to all educational programs for students past high-school age; it includes community and technical colleges and job training programs as well as bachelor's colleges and universities.

practicum
A course that includes job-related activities and stresses the practical application of theory in a field of study. See also internship.

prerequisite
A course that must be completed (often with a minimum grade) or a skill that must be demonstrated before a student can enroll in a more advanced course (for example, first-year French is a prerequisite for second-year French).

professional/technical programs
A course or instructional program that emphasizes job skills training for a particular field of work; often called occupational, vocational, or workforce education and often contrasted with academic or transfer education.

program
A very general term used in many ways in a college or university:
(1) The courses that an individual student plans to take (the completion coaches can help you plan your program each year).
(2) The courses required to complete a particular degree or certificate (he's almost finished with the Diagnostic Ultrasound program).
(3) The courses that make up a department or the departments that make up a division within the college organization (the Social Science Division at CBC offers instructional programs in many fields).
(4) Organized activities with a specific function (CBC offers support programs and services for students of color).

quarter
Some schools (including CBC) organize the academic year into three main periods—fall, winter and spring quarters—plus a shorter summer quarter (compare to semester).

records
Refers to all the information the college might keep regarding a student; it includes registration activity (enrollment, withdrawal, etc.), grades, payments, awards received, financial aid applications and award notices and notes on disciplinary actions, as well as address, phone number and student identification number.

refund
Tuition and fees that are paid back to a student who has withdrawn from a course. At CBC, the amount to be refunded depends on how many credits the student is taking and exactly when the student dropped the course(s). The refund policy is published in the catalog. Refund deadlines are published each quarter in the academic calendar.

register/registration
To enroll in a course or courses. Registration activity includes enrolling, dropping/withdrawing, making payments, etc.

requirements
Minimum standards defined by the college, for example for admission or graduation. See also prerequisite; distribution requirements; general education.

resident
For purposes of calculating a student's tuition and fees, someone who has lived in the state for a specified length of time as shown by specified types of evidence.

restricted elective
Courses that are generally not transferable to a four-year institution, limited to 15 credits in AA/DTA/MRP degrees. At CBC, restricted electives are designated with an [RE] after the course title.

Richland Campus
Many of CBC's Health Sciences classes are located at facilities on Northgate Drive in Richland. See also Health Science Center and Medical Science Center. A variety of classes are offered in the RA Building at 901 Northgate Drive.

scholarship
A type of financial aid. Organizations may give scholarships according to academic achievement, financial need or any other basis. Usually there is a competitive application process.

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 or semester, each with different days, times, locations and instructors but presenting the same curriculum.

self-paced
Start and complete competencies, assessments and assignments at the student's own pace. Learning is not tied to the pace of other students or due dates.

semester
Some schools organize the academic year into two main periods, fall and spring semesters, plus a shorter summer semester (compare to quarter).

senior
A student in the fourth year of a typical four-year bachelor's degree program (or one who has earned 135-180 quarter credits or 90-120 semester credits so far).

sophomore
A student in the second year of a typical four-year bachelor's degree program (or one who has earned 45-90 quarter credits or 30-60 semester credits so far).

syllabus
An outline plan for a particular class, including textbook requirements, class meeting dates, reading assignments, examination dates, the instructor's grading standards, etc.

synchronous online
Course instruction is provided online on specific days and times assigned to the class. All students are expected to meet online in real time at scheduled class times.

term
A unit of time that can refer to either a quarter or a semester, depending on which system the college or university follows.

TOEFL (Test of English as a Foreign Language)
A standardized test that assesses the English language abilities of students who are not native English-speakers.

transcript
An official record of the courses and quarter credits a student has taken at a college or university, the grades and degrees or certificates earned and any awards and honors received.

transfer
To move from one college or university to another and have the second institution recognize and accept some or all of the courses taken and credits earned at the first.

tuition & fees
Tuition is a student's basic payment toward the cost of instruction at a college or university. Most institutions also charge fees for laboratory equipment and materials, computer use, parking and other miscellaneous costs.

undergraduate
A student who has not yet earned a bachelor's degree; also refers to the courses and instructional programs such a student enrolls in.

unrestricted elective
Academic courses that are generally transferable to a four-year institution, including any course from the AA/DTA distribution courses.

upper division
The courses students are generally expected to complete during the last two years of a typical baccalaureate degree program.

waiver
To waive a right or a claim is to voluntarily give it up.
(1) If a student meets specific criteria, the college may waive some of their tuition and fees (that is, some of the money owed to the college will be forgiven).
(2) If a student demonstrates certain knowledge and abilities, the college may waive a course prerequisite (that is, allow the student to take the class even though they haven't completed the listed requirements for it).

WASFA (Washington Application for State Financial Aid)
The application required for undocumented individuals, who are not eligible for federal financial aid through FAFSA, to be considered for state student financial aid. The WASFA is processed free of charge and is used by most Washington state colleges and universities. A new electronic application is required for each academic year. WASFA applications are available on the Washington Student Achievement Council website.

withdrawal
The process of formally dropping a class or classes after the quarter has started.

work study
A type of financial aid earned, paying students to work part time, often on campus, during the academic year.

workshop
A type of class offered by a variety of academic departments throughout the year; many are exploratory or one-time options. Most often they are zero credits.

X building
The X Building houses our Education classes, faculty and staff. The building is located at 1620 N. 20th Ave in Pasco.

Cross-Listed Courses

Definition

A cross-listed course is a single course which is offered in more than one academic discipline.

Taking a course that is cross-listed, but not identified on the degree or certificate requirements may not be eligible to meet graduation requirements. Please consult with your completion coach or faculty advisor for more information.

Cross-Listed Courses

Course -- Cross-Listed Course(s)

ACCT 222 -- BUS 222
AG 201 -- BIOL 201
AG 252 -- BIOL 252
AG 304 -- AMGT 304
AG 402 -- AMGT 402 -- HCAD 402 -- NRS 315
AG 404 -- AMGT 404 -- HCAD 404
AG 470 -- AMGT 470
AG 480 -- AMGT 480 -- HCAD 480
AMGT 303 -- HCAD 303
AMGT 304 -- AG 304
AMGT 401 -- HCAD 401
AMGT 402 -- AG 402 -- HCAD 402 -- NRS 315
AMGT 404 -- AG 404 -- HCAD 404
AMGT 470 -- AG 470
AMGT 480 -- AG 480 -- HCAD 480
BIOL 201-- AG 201
BIOL 252 -- AG 252
BUS 222 -- ACCT 222
HCAD 303 -- AMGT 303
HCAD 401 -- AMGT 401
HCAD 402 -- AG 402 -- AMGT 402 -- NRS 315
HCAD 404 -- AG 404 -- AMGT 404
HCAD 480 -- AG 480 -- AMGT 480
HIST 115 -- SOC 115
HIST& 215 -- WS 215
ICS 220 -- SOC 220
NRS 315 -- AG 402 -- AMGT 402 -- HCAD 402
SOC 110 -- WS 110
SOC 115 -- HIST 115
SOC 220 -- ICS 220
WS 110 -- SOC 110
WS 215 -- HIST& 215

Distribution Codes

Communication [C]

CMST& 101 –– Introduction to Communication Studies
CMST 104 –– Speech Essentials
CMST 110 –– Communication Behavior
CMST&210 –– Interpersonal Communication
CMST&220 –– Public Speaking
CMST 260 –– Multicultural Communication
ENGL&101 –– English Composition I
ENGL&102 –– Composition II
ENGL&235 –– Technical Writing
ENGL 315 –– Writing for Health Professionals
ENGL 410 –– Professional & Organizational Communication

Humanities [H]

ART& 100 –– Art Appreciation
ART 116 –– Art History Ancient World
ART 117 –– Art History Medieval-Baroque
ART 118 –– Art History Modern Times
DRMA&101 –– Intro to Theatre
DRMA 215 –– Survey of Theatre History
ENGL&111 –– Intro to Literature
ENGL 140 –– The Cinema
ENGL 160 –– Women's Literature
ENGL 180 –– Multicultural Literature
ENGL 195 –– Bible as Literature
ENGL 203 –– Mythology
ENGL 210 –– Intro to Linguistics
ENGL&220 –– Intro to Shakespeare
ENGL&236 –– Creative Writing I
ENGL&237 –– Creative Writing II
ENGL&244 –– American Literature I
ENGL&245 –– American Literature II
ENGL&246 –– American Literature III
ENGL&254 –– World Literature I
ENGL&255 –– World Literature II
ENGL&256 –– World Literature III
ENGL 257 –– English Grammar
ENGL 264 –– English Literature I
ENGL 265 –– English Literature II
ENGL 266 –– English Literature III
ENGL 275 –– The Lord of the Rings
ENGL 280 –– Lesbian, Gay, Bisexual, Trans, Queer Studies
FRCH&121 –– French I
FRCH&122 –– French II
FRCH&123 –– French III
HIST&126 –– World Civilizations I
HIST&127 –– World Civilizations II
HIST&128 –– World Civilizations III
HIST&215 –– Women in U.S. History
ICS 120 –– Survey of Hispanic Culture
ICS 125 –– Native American Culture
ICS 130 –– Survey of Asian American Culture
ICS 135 –– Survey of African American Cultures
ICS 200 –– Intercultural Leadership
ICS 222 –– Columbia Basin Cultures
ICS 310 –– American Diversity
ICS 320 –– Culture and Health
JAPN&121 –– Japanese I
JAPN&122 –– Japanese II
JAPN&123 –– Japanese III
JAPN&221 –– Japanese IV
JAPN&222 –– Japanese V
JAPN&223 –– Japanese VI
MUSC&105 –– Music Appreciation
MUSC 116 –– History of Jazz
PHIL&101 –– Intro to Philosophy
PHIL106 –– Introduction to Logic
PHIL 131 –– World Religions
PHIL 150 –– Introduction to Ethics
PHIL 305 –– Professional Ethics
PHIL 315 –– Professional Ethics in Healthcare
SPAN 110 –– Beginning Spanish for Professionals
SPAN 111 –– Intermediate Spanish for Professionals
SPAN 112 –– Advanced Spanish for Professionals
SPAN&121 –– Spanish I
SPAN&122 –– Spanish II
SPAN&123 –– Spanish III
SPAN 205 –– Spanish for Spanish Speakers
SPAN 206 –– Spanish for Spanish Speakers
SPAN 207 –– Spanish for Spanish Speakers
SPAN&221 –– Spanish IV
SPAN&222 –– Spanish V
SPAN&223 –– Spanish VI
WS 155 –– Women's Cultural Heritage
WS 215 –– Women in U.S. History

Mathematical & Natural Sciences [M/S]

ANTH&205 –– Biological Anthropology
ANTH 214 –– Biological Anthropology Lab
ASTR&101 –– Intro to Astronomy w/ Lab
ASTR 102 –– Intro to Astronomy - Part II w/ Lab
BIOL&100 –– Survey of Biology w/ Lab
BIOL 140 –– Fundamentals of Botany w/ Lab
BIOL 148 –– Plant Identification w/ Lab
BIOL&160 –– General Biology w/ Lab
BIOL&175 –– Human Biology w/ Lab
BIOL 201 –– Soils w/ Lab
BIOL&211 –– Majors Cellular w/ Lab
BIOL&212 –– Majors Plant w/ Lab
BIOL&213 –– Majors Animal w/ Lab
BIOL&241 –– Human A&P 1 w/ Lab
BIOL&242 –– Human A&P 2 w/ Lab
BIOL 252 –– Insects of Economic Importance w/ Lab
BIOL 253 –– Plant Pathology w/ Lab
BIOL&260 –– Microbiology w/ Lab
CHEM&110 –– Chemical Concepts w/ Lab
CHEM&121 –– Intro to Chemistry w/ Lab
CHEM&122 –– Intro to Organic Chemistry w/ Lab
CHEM&123 –– Intro to Biochemistry w/ Lab
CHEM&140 –– General Chemistry Prep w/ Lab
CHEM&161 –– General Chemistry I w/ Lab
CHEM&162 –– General Chemistry II w/ Lab
CHEM&163 –– General Chemistry III w/ Lab
CHEM&241 –– Organic Chemistry I
CHEM&242 –– Organic Chemistry II
CHEM&243 –– Organic Chemistry III
CHEM&251 –– Organic Chemistry I Lab
CHEM&252 –– Organic Chemistry II Lab
CHEM&253 –– Organic Chemistry III Lab
CHEM 254 –– Quantitative Analysis
CHEM 260 –– Biochemistry
CHEM 255 –– Instrumental Analysis
CHEM 264 –– Quantitative Analysis Lab
CHEM 265 –– Instrumental Analysis Lab
CHEM 281 –– Undergraduate Research, Special Topics
CHEM 282 –– Undergraduate Research, Special Topics
CHEM 283 –– Undergraduate Research, Special Topics
CHEM 284 –– Undergraduate Research, Special Topics
CHEM 285 –– Undergraduate Research, Special Topics
CHEM 286 –– Undergraduate Research, Special Topics
CHEM 291 –– Undergraduate Research, Special Topics
CHEM 292 –– Undergraduate Research, Special Topics
CHEM 293 –– Undergraduate Research, Special Topics
CHEM 294 –– Undergraduate Research, Special Topics
CHEM 295 –– Undergraduate Research, Special Topics
CHEM 296 –– Undergraduate Research, Special Topics
CS 102 –– Programming Fundamentals
CS& 131 –– Computer Science I C++
CS& 141 –– Computer Science I Java w/ Android Devices
ENVS&101 –– Intro to Environmental Science w/ Lab
ENVS 174 –– Intro to Meteorology and the Atmosphere
ENVS 310 –– Environmental Issues
GEO 101 –– Physical Geography
GEOL&101 –– Intro to Physical Geology w/ Lab
GEOL&103 –– Historical Geology w/ Lab
GEOL&110 –– Environmental Geology w/ Lab
MATH 113 –– Geometry/Trigonometry
MATH& 171 –– Math for Elementary Education I

Distribution Codes

NUTR&101 –– Nutrition
PHYS 102 –– Physics of Everyday Experience
PHYS&110 –– Physics for Non-Science Majors w/ Lab
PHYS&114 –– General Physics I w/ Lab
PHYS&115 –– General Physics II w/ Lab
PHYS&116 –– General Physics III w/ Lab
PHYS&221 –– Engineering Physics I w/ Lab
PHYS&222 –– Engineering Physics II w/ Lab
PHYS&223 –– Engineering Physics III w/ Lab

Mathematical & Natural Science OR Quantitative/Symbolic Reasoning [M/S] [Q/SR]

MATH&107 –– Math in Society
MATH&141 –– Precalculus I
MATH&142 –– Precalculus II
MATH&146 –– Introduction to Stats
MATH 147 –– Finite Math
MATH&148 –– Business Calculus
MATH&151 –– Calculus I
MATH&152 –– Calculus II
MATH&153 –– Calculus III
MATH&172 –– Math for Elementary Education II
MATH&173 –– Math for Elementary Education III
MATH 243 –– Linear Algebra
MATH 246 –– Discrete Structures
MATH&254 –– Calculus IV
MATH 255 –– Differential Equations

Health & Physical Education [PE]

EXSC 101-- Introduction to Exercise Science
HE 110 –– Concepts of Fitness
HE 160 –– Diet, Exercise & Weight Control
HE 161 –– HIV/AIDS Issues and Strategies
HE 162 –– HIV/AIDS Education
HE 170 –– Health and Wellness
HE 171 –– Exercise Prescription
HE 172 –– Exercise Prescription Lab
HE 210 –– Sports Nutrition
HE 215 –– Health and Fitness for Life
HE 220 –– Drugs and Health
HE 232 –– Sports Psychology
HE 240 –– Stress Management
HE 250 –– Sports Management
PE 110 –– Aerobics Step Training I
PE 111 –– Aerobics Step Training II
PE 112 –– Aerobic Dance I
PE 113 –– Aerobic Dance II
PE 114 –– Aerobic Dance III
PE 115 –– Body Mechanics
PE 116 –– Pilates
PE 117 –– Yoga I
PE 118 –– Step Aerobic Interval Training
PE 119 –– Yoga II
PE 120 –– Weight Training I
PE 121 –– Weight Training II
PE 122 –– Weight Training III
PE 135 –– Golf Swing Analysis Strategies
PE 140 –– Softball I
PE 141 –– Softball II
PE 142 –– Softball III
PE 145 –– Soccer I
PE 146 –– Soccer II
PE 147 –– Soccer III
PE 148 –– Jogging I
PE 152 –– Badminton I
PE 160 –– Basketball I
PE 161 –– Basketball II
PE 162 –– Basketball III
PE 163 –– Volleyball I
PE 164 –– Volleyball II
PE 165 –– Volleyball III
PE 182 –– Adaptive PE Lab
PE 183 –– Pickleball I
PE 184 –– Pickleball II
PE 185 –– Pickleball III
PE 187 –– Baseball I
PE 188 –– Baseball II
PE 189 –– Baseball III
PE 190 –– Cardio Kickboxing I
PE 203 –– Badminton II
PE 204 –– Badminton III
PSYC 270 –– Health Psychology

Quantitative/Symbolic Reasoning [Q/SR]

PHIL& 120 –– Symbolic Logic

Social & Behavioral Sciences [S/B]

ANTH&100 –– Survey on Anthropology
ANTH&204 –– Archaeology
ANTH&206 –– Cultural Anthropology
ANTH&234 –– Religion & Culture
BUS& 101 –– Introduction to Business
CJ& 101 –– Introduction to Criminal Justice
CMST& 102 –– Intro to Mass Media
ECON 110 –– Economic Trends, Issues and Policy
ECON&201 –– Micro Economics
ECON&202 –– Macro Economics
ECON 291 –– History of American Economic Development
ECON 305 –– Managerial Economics
ECON 315 –– Economics of Healthcare
EDUC& 115 –– Child Development
GEOG&200 –– Human Geography
HIST 107 –– Chicano History
HIST 108 –– History of Immigration in the U.S.
HIST 110 –– History of Modern East Asia
HIST 111 –– Colonial Latin America
HIST 112 –– Modern Latin America
HIST 113 –– Mexico Since Independence
HIST 115 –– Intro to Middle East History & Society
HIST&146 –– U.S. History I
HIST&147 –– U.S. History II
HIST&148 –– U.S. History III
HIST 212 –– American Military History from the Colonial Period to the Present
ICS 220 –– Globalization
ICS 255 –– Race and Ethnic Relations
POLS 104 –– State and Local Government
POLS&201 –– Intro Political Theory
POLS&202 –– United States Government
POLS&203 –– International Relations
POLS&204 –– Comparative Government
POLS 205 –– American Political Thought
POLS 280 –– Race and Law in the U.S.
PSYC&100 –– General Psychology
PSYC&200 –– Lifespan Psychology
PSYC 201 –– Social Psychology
PSYC 209 –– Fundamentals of Psychological Research
PSYC&220 –– Abnormal Psychology
SOC&101 –– Intro to Sociology
SOC 110 –– Gender, Media, & Popular Culture
SOC 115 –– Intro to Middle East History & Society
SOC 150 –– Marriage, Family, and Relationships
SOC 160 –– Gender Studies
SOC&201 –– Social Problems
SOC 220 –– Globalization
SOC 221 –– Sociology of Deviance and Crime
SOC 269 –– Sociology of World Cinema
SOC 305 –– Cybercrime: A Sociological Perspective
SSCI 290 –– Social Research Methods
SSCI 291 –– Social Research Methods Lab
WS 110 –– Gender, Media, & Popular Culture

Courses not included in this list of Distribution Codes are either restricted electives or unrestricted electives. Restricted electives are designated with an [RE] after the course title.

Associate in Arts & Sciences (AA/DTA)

Direct Transfer Agreement

2026-2027 Degree Requirements

Communication

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
English - select 5 additional credits from the following:				
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication Studies - select a minimum of 3 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST 104	Speech Essentials [C]	3		
CMST 110	Communication Behavior [C]	3		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
Note: Credit not granted for both CMST 104 and CMST& 220. Note: Credit not granted for both CMST 110 and CMST& 210.				

Subtotal 13

Quantitative/Symbolic Reasoning

Select one course from either the Quantitative Reasoning or Symbolic Reasoning courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Quantitative Reasoning:				
MATH& 107	Math In Society [M/S] [Q/SR]	5		
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
MATH& 254	Calculus IV [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH 147	Finite Math [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 172	Math for Elementary Education II [M/S] [Q/SR]	5		
MATH& 173	Math for Elementary Education III [M/S] [Q/SR]	5		
MATH 243	Linear Algebra [M/S] [Q/SR]	5		
MATH 246	Discrete Structures [M/S] [Q/SR]	5		
MATH 255	Differential Equations [M/S] [Q/SR]	5		
Symbolic Reasoning:				
PHIL& 120	Symbolic Logic [Q/SR]	5		
Note: A single Math course cannot be counted for both a Natural Science and Quantitative/Symbolic Reasoning requirement.				

Subtotal 5

Humanities

Select three courses from the list below. Courses must be selected from at least two of the three groups. At least one course must be selected from Group A. Only one course may be selected from Group C.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Group A - at least one course must be selected from this group; a maximum of two of your three courses may be selected from this group:				
ART& 100	Art Appreciation [H]	5		
ART 116	Art History Ancient World [H]	5		
ART 117	Art History Medieval-Baroque [H]	5		
ART 118	Art History Modern Times [H]	5		
DRMA& 101	Intro to Theatre [H]	5		
DRMA 215	Survey of Theatre History [H]	5		
ENGL& 111	Intro to Literature [H]	5		
ENGL 140	The Cinema [H]	5		
ENGL 160	Women's Literature [H]	5		
ENGL 180	Multicultural Literature [H]	5		
ENGL 195	Bible As Literature [H]	5		
ENGL 203	Mythology [H]	5		
ENGL 210	Intro to Linguistics [H]	5		
ENGL& 220	Intro to Shakespeare [H]	5		
ENGL& 236	Creative Writing I [H]	5		
ENGL& 237	Creative Writing II [H]	5		
ENGL& 244	American Literature I [H]	5		
ENGL& 245	American Literature II [H]	5		
ENGL& 246	American Literature III [H]	5		
ENGL& 254	World Literature I [H]	5		
ENGL& 255	World Literature II [H]	5		
ENGL& 256	World Literature III [H]	5		
ENGL 257	English Grammar [H]	5		
ENGL 264	English Literature I [H]	5		
ENGL 265	English Literature II [H]	5		
ENGL 266	English Literature III [H]	5		
ENGL 275	The Lord of The Rings [H]	5		
ENGL 280	Lesbian, Gay, Bisexual, Trans, Queer Studies [H]	5		
MUSC& 105	Music Appreciation [H]	5		
MUSC 116	History of Jazz [H]	5		
Group B - a maximum of two of your three courses may be selected from this group:				
HIST& 126	World Civilizations I [H]	5		
HIST& 127	World Civilizations II [H]	5		
HIST& 128	World Civilizations III [H]	5		
HIST& 215	Women in U.S. History [H]	5		
HIST& 215 is cross-listed with WS 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 120	Survey of Hispanic Culture [H]	5		
ICS 125	Native American Culture [H]	5		
ICS 130	Survey of Asian American Culture [H]	5		
ICS 135	Survey of African American Cultures [H]	5		
ICS 200	Intercultural Leadership [H]	5		
ICS 222	Columbia Basin Cultures [H]	5		
PHIL& 101	Intro to Philosophy [H]	5		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHIL 106	Introduction to Logic [H]	5		
PHIL 131	World Religions [H]	5		
PHIL 150	Introduction to Ethics [H]	5		
WS 155	Women's Cultural Heritage [H]	5		
WS 215	Women in U.S. History [H]	5		
WS 215 is cross-listed with HIST& 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
Group C - only one of your three courses may be selected from this group:				
FRCH& 121	French I [H]	5		
FRCH& 122	French II [H]	5		
FRCH& 123	French III [H]	5		
JAPN& 121	Japanese I [H]	5		
JAPN& 122	Japanese II [H]	5		
JAPN& 123	Japanese III [H]	5		
JAPN& 221	Japanese IV [H]	5		
JAPN& 222	Japanese V [H]	5		
JAPN& 223	Japanese VI [H]	5		
SPAN& 121	Spanish I [H]	5		
SPAN& 122	Spanish II [H]	5		
SPAN& 123	Spanish III [H]	5		
SPAN& 221	Spanish IV [H]	5		
SPAN& 222	Spanish V [H]	5		
SPAN& 223	Spanish VI [H]	5		
SPAN 110	Beginning Spanish for Professionals [H]	5		
SPAN 111	Intermediate Spanish for Professionals [H]	5		
SPAN 112	Advanced Spanish for Professionals [H]	5		
SPAN 205	Spanish for Spanish Speakers [H]	5		
SPAN 206	Spanish for Spanish Speakers [H]	5		
SPAN 207	Spanish for Spanish Speakers [H]	5		
	Subtotal	**15**		

Social & Behavioral Sciences

Courses must be selected from two different subject areas

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ANTH& 100	Survey of Anthropology [S/B]	5		
ANTH& 204	Archaeology [S/B]	5		
ANTH& 206	Cultural Anthropology [S/B]	5		
ANTH& 234	Religion & Culture [S/B]	5		
BUS& 101	Introduction to Business [S/B]	5		
CJ& 101	Introduction to Criminal Justice [S/B]	5		
CMST& 102	Intro to Mass Media [S/B]	5		
ECON 110	Economic Trends, Issues and Policy [S/B]	5		
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
ECON 291	History of American Economic Development [S/B]	1–5		
EDUC& 115	Child Development [S/B]	5		
GEOG& 200	Human Geography [S/B]	5		
HIST 107	Chicano History [S/B]	5		
HIST 108	History of Immigration In The U.S. [S/B]	5		
HIST 110	History of Modern East Asia [S/B]	5		
HIST 111	Colonial Latin America [S/B]	5		
HIST 112	Modern Latin America [S/B]	5		
HIST 113	Mexico Since Independence [S/B]	5		
HIST 115	Intro to Middle East History & Society [S/B]	5		
HIST 115 is cross-listed with SOC 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HIST& 146	U.S. History I [S/B]	5		
HIST& 147	U.S. History II [S/B]	5		
HIST& 148	U.S. History III [S/B]	5		
HIST 212	American Military History from the Colonial Period to the Present [S/B]	5		
ICS 220	Globalization [S/B]	5		
ICS 220 is cross-listed with SOC 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 255	Race and Ethnic Relations [S/B]	5		
POLS 104	State and Local Government [S/B]	5		
POLS& 201	Intro Political Theory [S/B]	5		
POLS& 202	United States Government [S/B]	5		
POLS& 203	International Relations [S/B]	5		
POLS& 204	Comparative Government [S/B]	5		
POLS 205	American Political Thought [S/B]	5		
POLS 280	Race and Law in the U.S.[S/B]	5		
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
PSYC 209	Fundamentals of Psychological Research [S/B]	5		
PSYC& 220	Psychological Disorders [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC 110	Gender, Media, & Popular Culture [S/B]	5		
SOC 110 is cross-listed with WS 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 115	Intro to Middle East History & Society [S/B]	5		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
SOC 115 is cross-listed with HIST 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 150	Marriage, Family, and Relationships [S/B]	5		
SOC 160	Gender Studies [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
SOC 220	Globalization [S/B]	5		
SOC 220 is cross-listed with ICS 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 221	Sociology of Deviance and Crime [S/B]	5		
SOC 269	Sociology of World Cinema [S/B]	5		
SSCI 290	Social Research Methods [S/B]	4		
and				
SSCI 291	Social Research Methods Lab [S/B]	1		
WS 110	Gender, Media, and Popular Culture [S/B]	5		
WS 110 is cross-listed with SOC 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**15**		

Mathematical & Natural Science

Courses must be selected from two different subject areas. At least 10 credits must be from Natural Science courses. NOTE: One course must be a laboratory science.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Mathematical - a maximum of up to 5 of your 15 credits may be selected from the following. NOTE: One course of your 15 credits must be a laboratory science.				
CS 102	Programming Fundamentals [M/S]	5		
CS& 131	Computer Science I C++ [M/S]	5		
CS& 141	Computer Science I Java [M/S]	5		
MATH& 107	Math In Society [M/S] [Q/SR]	5		
MATH 113	Geometry/Trigonometry [M/S]	5		
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH 147	Finite Math [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
MATH& 171	Math for Elementary Education I [M/S]	5		
MATH& 172	Math for Elementary Education II [M/S] [Q/SR]	5		
MATH& 173	Math for Elementary Education III [M/S] [Q/SR]	5		
MATH 243	Linear Algebra [M/S] [Q/SR]	5		
MATH 246	Discrete Structures [M/S] [Q/SR]	5		
MATH& 254	Calculus IV [M/S] [Q/SR]	5		
MATH 255	Differential Equations [M/S] [Q/SR]	5		
Note: A single Math course cannot be counted for both a Natural Science and Quantitative/Symbolic Reasoning requirement.				
Natural Science (non labs) - a maximum of up 10 of your 15 credits may be selected from the following. NOTE: One course of your 15 credits must be a laboratory science.				
ANTH& 205	Biological Anthropology [M/S]	5		
CHEM 260	Biochemistry [M/S]	5		
CHEM 281	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 282	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 283	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 284	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 285	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 286	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 291	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 292	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 293	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 294	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 295	Undergraduate Research, Special Topics [M/S]	1–3		
CHEM 296	Undergraduate Research, Special Topics [M/S]	1–3		
ENVS 174	Intro to Meteorology and The Atmosphere [M/S]	5		
GEO 101	Physical Geography [M/S]	5		
NUTR& 101	Nutrition [M/S]	5		
PHYS 102	Physics of Everyday Experience [M/S]	5		
Natural Science (labs) - NOTE: One course of your 15 credits must be a laboratory science. Select one course from the following:				
ANTH 214	Biological Anthropology Lab [M/S]	1		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ASTR& 101	Intro to Astronomy W/ Lab [M/S]	5		
ASTR 102	Intro to Astronomy - Part II W/ Lab [M/S]	5		
BIOL& 100	Survey of Biology W/ Lab [M/S]	5		
BIOL 140	Fundamentals of Botany W/ Lab [M/S]	5		
BIOL 148	Plant Identification W/ Lab [M/S]	5		
BIOL& 160	General Biology W/ Lab [M/S]	5		
BIOL& 175	Human Biology W/ Lab [M/S]	5		
BIOL 201	Soils W/ Lab [M/S]	5		
BIOL 201 is cross-listed with AG 201. A student may not use equivalent cross-listed courses for the same graduation requirement.				
BIOL& 211	Majors Cellular W/ Lab [M/S]	5		
BIOL& 212	Majors Plant W/ Lab [M/S]	5		
BIOL& 213	Majors Animal W/ Lab [M/S]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL 252	Insects of Economic Importance W/ Lab [M/S]	5		
BIOL 252 is cross-listed with AG 252. A student may not use equivalent cross-listed courses for the same graduation requirement.				
BIOL 253	Plant Pathology W/ Lab [M/S]	5		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
CHEM& 110	Chemical Concepts W/ Lab [M/S]	5		
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 122	Intro to Organic Chemistry W/ Lab [M/S]	5		
CHEM& 123	Intro to Biochemistry W/ Lab [M/S]	5		
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	6		
CHEM& 162	General Chemistry II W/ Lab [M/S]	6		
CHEM& 163	General Chemistry III W/ Lab [M/S]	6		
CHEM& 241/251	Organic Chemistry I [M/S] + Lab	6		
CHEM& 242/252	Organic Chemistry II [M/S] + Lab	6		
CHEM& 243/253	Organic Chemistry III [M/S] + Lab	6		
CHEM 254/264	Quantitative Analysis [M/S] + Lab	5		
CHEM 255/265	Instrumental Analysis [M/S] + Lab	5		
ENVS& 101	Intro to Environmental Science W/Lab [M/S]	5		
GEOL& 101	Intro to Physical Geology W/ Lab [M/S]	5		
GEOL& 103	Historical Geology W/ Lab [M/S]	5		
GEOL& 110	Environmental Geology W/ Lab [M/S]	5		
PHYS& 110	Physics for Non-Science Majors W/ Lab [M/S]	5		
PHYS& 114	General Physics I W/ Lab [M/S]	5		
PHYS& 115	General Physics II W/ Lab [M/S]	5		
PHYS& 116	General Physics III W/ Lab [M/S]	5		
PHYS& 221	Engineering Physics I W/ Lab [M/S]	5		
PHYS& 222	Engineering Physics II W/ Lab [M/S]	5		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHYS& 223	Engineering Physics III W/ Lab [M/S]	5		
	Subtotal	**15**		

Health & Physical Education

Select three credits from either the Health lecture or PE activity courses. A maximum of three PE credits may be applied to the degree (consult with advisor about this rule).

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Health Lecture:				
EXSC 101	Introduction to Exercise Science [PE]	3		
HE 110	Concepts of Fitness [PE]	2		
HE 160	Diet, Exercise & Weight Control [PE]	2		
HE 161	HIV/AIDS Issues and Strategies [PE]	2		
HE 162	HIV/AIDS Education [PE]	1		
HE 170	Health and Wellness [PE]	3		
HE 171/172	Exercise Prescription [PE] + Lab	3		
HE 210	Sports Nutrition [PE]	3		
HE 215	Health and Fitness for Life [PE]	3		
HE 220	Drugs and Health [PE]	3		
HE 232	Sports Psychology [PE]	3		
HE 240	Stress Management [PE]	3		
HE 250	Sports Management [PE]	3		
PSYC 270	Health Psychology [PE]	5		
PE Activity:				
PE 110	Aerobics Step Training I [PE]	1		
PE 111	Aerobics Step Training II [PE]	1		
PE 112	Aerobic Dance I [PE]	1		
PE 113	Aerobic Dance II [PE]	1		
PE 114	Aerobic Dance III [PE]	1		
PE 115	Body Mechanics [PE]	1		
PE 116	Pilates [PE]	1		
PE 117	Yoga I [PE]	1		
PE 118	Step Aerobic Interval Training [PE]	1		
PE 119	Yoga II [PE]	1		
PE 120	Weight Training I [PE]	1		
PE 121	Weight Training II [PE]	1		
PE 122	Weight Training III [PE]	1		
PE 135	Golf Swing Analysis Strategies [PE]	2		
PE 140	Softball I [PE]	1		
PE 141	Softball II [PE]	1		
PE 142	Softball III [PE]	1		
PE 145	Soccer I [PE]	1		
PE 146	Soccer II [PE]	1		
PE 147	Soccer III [PE]	1		
PE 148	Jogging I [PE]	1		
PE 152	Badminton I [PE]	1		
PE 160	Basketball I [PE]	1		
PE 161	Basketball II [PE]	1		
PE 162	Basketball III [PE]	1		
PE 163	Volleyball I [PE]	1		
PE 164	Volleyball II [PE]	1		
PE 165	Volleyball III [PE]	1		
PE 183	Pickleball [PE]	1		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PE 184	Pickleball II [PE]	1		
PE 185	Pickleball III [PE]	1		
PE 187	Baseball I [PE]	1		
PE 188	Baseball II [PE]	1		
PE 189	Baseball III [PE]	1		
PE 190	Cardio Kickboxing I [PE]	1		
PE 203	Badminton II [PE]	1		
PE 204	Badminton III [PE]	1		
	Subtotal	**3**		

Electives

Courses must be numbered 100 or above. A maximum of 15 credits from restricted electives may be applied. Please consult with an advisor/counselor for appropriate course selection.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		5		
		5		
		4		
	Subtotal	**24**		
	Total Credits Required	**90**		

Graduation Requirements:

- Required minimum 90 credits.
- Required minimum cumulative college-level GPA of 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your completion coach or advisor.
- Maximum three credits of PE may be applied.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.
- Refer to Catalog Option Policy for information about using previous degree requirements.
- For individual college requirements, see Provisions on our Transfer Opportunities webpage.

Direct Transfer Agreement (DTA) Information:

For transferring students, 75 of the 90 credits must be fully transferable as defined by the Intercollege Relations Commission (ICRC) guidelines for the Direct Transfer Agreement (DTA) to be honored by four-year institutions in Washington. A maximum of 15 restricted elective [RE] credits may be used. The DTA will fulfill college and university general education requirements only. It may not meet unique institutional requirements, and does not modify admissions criteria for baccalaureate institutions. Upon entry to a baccalaureate institution, a DTA will generally provide a student with at least 90 quarter (60 semester) credits.

Biology Associate in Arts & Sciences (AA/DTA/MRP)

Direct Transfer Agreement/Major Related Program

2026-2027 Degree Requirements

Communication

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
English - select 5 additional credits from the following:				
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
	Subtotal	**10**		

Quantitative/Symbolic Reasoning *1

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Symbolic/Quantitative Reasoning:				
MATH& 151	Calculus I [M/S] [Q/SR]	5		
	Subtotal	**5**		

Humanities

Select three courses from the list below. Courses must be selected from at least two of the three groups. At least one course must be selected from Group A. Only one course may be selected from Group C.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Group A - at least one course must be selected from this group; a maximum of two of your three courses may be selected from this group:				
ART& 100	Art Appreciation [H]	5		
ART 116	Art History Ancient World [H]	5		
ART 117	Art History Medieval-Baroque [H]	5		
ART 118	Art History Modern Times [H]	5		
DRMA& 101	Intro to Theatre [H]	5		
DRMA 215	Survey of Theatre History [H]	5		
ENGL& 111	Intro to Literature [H]	5		
ENGL 140	The Cinema [H]	5		
ENGL 160	Women's Literature [H]	5		
ENGL 180	Multicultural Literature [H]	5		
ENGL 195	Bible As Literature [H]	5		
ENGL 203	Mythology [H]	5		
ENGL 210	Intro to Linguistics [H]	5		
ENGL& 220	Intro to Shakespeare [H]	5		
ENGL& 236	Creative Writing I [H]	5		
ENGL& 237	Creative Writing II [H]	5		
ENGL& 244	American Literature I [H]	5		
ENGL& 245	American Literature II [H]	5		
ENGL& 246	American Literature III [H]	5		
ENGL& 254	World Literature I [H]	5		
ENGL& 255	World Literature II [H]	5		
ENGL& 256	World Literature III [H]	5		
ENGL 257	English Grammar [H]	5		
ENGL 264	English Literature I [H]	5		
ENGL 265	English Literature II [H]	5		
ENGL 266	English Literature III [H]	5		
ENGL 275	The Lord of The Rings [H]	5		
ENGL 280	Lesbian, Gay, Bisexual, Trans, Queer Studies [H]	5		
MUSC& 105	Music Appreciation [H]	5		
MUSC 116	History of Jazz [H]	5		
Group B - a maximum of two of your three courses may be selected from this group:				
HIST& 126	World Civilizations I [H]	5		
HIST& 127	World Civilizations II [H]	5		
HIST& 128	World Civilizations III [H]	5		
HIST& 215	Women in U.S. History [H]	5		
HIST& 215 is cross-listed with WS 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 120	Survey of Hispanic Culture [H]	5		
ICS 125	Native American Culture [H]	5		
ICS 130	Survey of Asian American Culture [H]	5		
ICS 135	Survey of African American Cultures [H]	5		
ICS 200	Intercultural Leadership [H]	5		
ICS 222	Columbia Basin Cultures [H]	5		
PHIL& 101	Intro to Philosophy [H]	5		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHIL 106	Introduction to Logic [H]	5		
PHIL 131	World Religions [H]	5		
PHIL 150	Introduction to Ethics [H]	5		
WS 155	Women's Cultural Heritage [H]	5		
WS 215	Women in U.S. History [H]	5		
WS 215 is cross-listed with HIST& 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
Group C - only one of your three courses may be selected from this group:				
FRCH& 121	French I [H]	5		
FRCH& 122	French II [H]	5		
FRCH& 123	French III [H]	5		
JAPN& 121	Japanese I [H]	5		
JAPN& 122	Japanese II [H]	5		
JAPN& 123	Japanese III [H]	5		
JAPN& 221	Japanese IV [H]	5		
JAPN& 222	Japanese V [H]	5		
JAPN& 223	Japanese VI [H]	5		
SPAN& 121	Spanish I [H]	5		
SPAN& 122	Spanish II [H]	5		
SPAN& 123	Spanish III [H]	5		
SPAN& 221	Spanish IV [H]	5		
SPAN& 222	Spanish V [H]	5		
SPAN& 223	Spanish VI [H]	5		
SPAN 110	Beginning Spanish for Professionals [H]	5		
SPAN 111	Intermediate Spanish for Professionals [H]	5		
SPAN 112	Advanced Spanish for Professionals [H]	5		
SPAN 205	Spanish for Spanish Speakers [H]	5		
SPAN 206	Spanish for Spanish Speakers [H]	5		
SPAN 207	Spanish for Spanish Speakers [H]	5		
	Subtotal	**15**		

Social & Behavioral Sciences

Courses must be selected from two different subject areas.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ANTH& 100	Survey of Anthropology [S/B]	5		
ANTH& 204	Archaeology [S/B]	5		
ANTH& 206	Cultural Anthropology [S/B]	5		
ANTH& 234	Religion & Culture [S/B]	5		
BUS& 101	Introduction to Business [S/B]	5		
CJ& 101	Introduction to Criminal Justice [S/B]	5		
CMST& 102	Intro to Mass Media [S/B]	5		
ECON 110	Economic Trends, Issues and Policy [S/B]	5		
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
ECON 291	History of American Economic Development [S/B]	1–5		
GEOG& 200	Human Geography [S/B]	5		
HIST 107	Chicano History [S/B]	5		
HIST 108	History of Immigration In The U.S. [S/B]	5		
HIST 110	History of Modern East Asia [S/B]	5		
HIST 111	Colonial Latin America [S/B]	5		
HIST 112	Modern Latin America [S/B]	5		
HIST 113	Mexico Since Independence [S/B]	5		
HIST 115	Intro to Middle East History & Society [S/B]	5		
HIST 115 is cross-listed with SOC 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HIST 212	American Military History from the Colonial Period to the Present [S/B]	5		
HIST& 146	U.S. History I [S/B]	5		
HIST& 147	U.S. History II [S/B]	5		
HIST& 148	U.S. History III [S/B]	5		
ICS 220	Globalization [S/B]	5		
ICS 220 is cross-listed with SOC 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 255	Race and Ethnic Relations [S/B]	5		
POLS 104	State and Local Government [S/B]	5		
POLS& 201	Intro Political Theory [S/B]	5		
POLS& 202	United States Government [S/B]	5		
POLS& 203	International Relations [S/B]	5		
POLS& 204	Comparative Government [S/B]	5		
POLS 205	American Political Thought [S/B]	5		
POLS 280	Race and Law in the U.S.[S/B]	5		
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
PSYC 209	Fundamentals of Psychological Research [S/B]	5		
PSYC& 220	Psychological Disorders [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC 110	Gender, Media, & Popular Culture [S/B]	5		
SOC 110 is cross-listed with WS 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 115	Intro to Middle East History & Society [S/B]	5		
SOC 115 is cross-listed with HIST 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
SOC 150	Marriage, Family, and Relationships [S/B]	5		
SOC 160	Gender Studies [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
SOC 220	Globalization [S/B]	5		
SOC 220 is cross-listed with ICS 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 221	Sociology of Deviance and Crime [S/B]	5		
SOC 269	Sociology of World Cinema [S/B]	5		
SSCI 290	Social Research Methods [S/B]	4		
and				
SSCI 291	Social Research Methods Lab [S/B]	1		
WS 110	Gender, Media, and Popular Culture [S/B]	5		
WS 110 is cross-listed with SOC 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**15**		

Natural Sciences

Sequences of courses should be taken at the same institution.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BIOL& 211	Majors Cellular W/ Lab [M/S]	5		
BIOL& 212	Majors Plant W/ Lab [M/S]	5		
BIOL& 213	Majors Animal W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	5-6		
CHEM& 162	General Chemistry II W/ Lab [M/S]	5-6		
CHEM& 163	General Chemistry III W/ Lab [M/S]	5-6		
	Subtotal	**30-33**		

Electives

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146 *1	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
CHEM& 241	Organic Chemistry I [M/S]	4		
CHEM& 251	Organic Chemistry I Lab [M/S]	2		
CHEM& 242	Organic Chemistry II [M/S]	4		
CHEM& 252	Organic Chemistry II Lab [M/S]	2		
CHEM& 243	Organic Chemistry III [M/S]	4		
CHEM& 253	Organic Chemistry III Lab [M/S]	2		
PHYS& 114	General Physics I W/ Lab [M/S]	5		
PHYS& 115	General Physics II W/ Lab [M/S]	5		
PHYS& 116	General Physics III W/ Lab [M/S]	5		
	Subtotal	**15**		
	Total Credits Required	**90-93**		

Degree & Certificate Requirements

Graduation Requirements:

- Required minimum 90 credits.
- Required minimum cumulative college-level GPA of 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your completion coach or advisor.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.
- Refer to Catalog Option Policy for information about using previous degree requirements.
- For individual college requirements, see Provisions on our Transfer Opportunities webpage.
- *1 Statistics (a course that includes descriptive and inferential statistics) may substitute for Calculus I at some institutions; students are encouraged to check with the transfer institution early in their decision process to confirm requirements.
- Admission to specific upper division biology programs may be competitive; therefore, no particular GPA can guarantee admission to any specific program.

Associate in Science Transfer (AS-T1) in Biological Sciences, Environmental Sciences, Chemistry, Geology, Earth Sciences

TRANSFER

2026-2027 Degree Requirements

Communication

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
	Subtotal	**5**		

Mathematics

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Mathematics - select 10 credits from the following:				
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
MATH 243	Linear Algebra [M/S] [Q/SR]	5		
MATH& 254	Calculus IV [M/S] [Q/SR]	5		
MATH 255	Differential Equations [M/S] [Q/SR]	5		
	Subtotal	**10**		

Humanities and Social & Behavioral Sciences

Select three courses from the list below. Complete at least one course from each of the two groups. Courses must be selected from three different subject areas with a total of 15 credits required. No more than 5 credits in any World Languages.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Humanities - at least one course must be selected from this group. Courses must be selected from different subjects.				
ART& 100	Art Appreciation [H]	5		
ART 116	Art History Ancient World [H]	5		
ART 117	Art History Medieval-Baroque [H]	5		
ART 118	Art History Modern Times [H]	5		
DRMA& 101	Intro to Theatre [H]	5		
DRMA 215	Survey of Theatre History [H]	5		
ENGL& 111	Intro to Literature [H]	5		
ENGL 140	The Cinema [H]	5		
ENGL 160	Women's Literature [H]	5		
ENGL 180	Multicultural Literature [H]	5		
ENGL 195	Bible As Literature [H]	5		
ENGL 203	Mythology [H]	5		
ENGL 210	Intro to Linguistics [H]	5		
ENGL& 220	Intro to Shakespeare [H]	5		
ENGL& 236	Creative Writing I [H]	5		
ENGL& 237	Creative Writing II [H]	5		
ENGL& 244	American Literature I [H]	5		
ENGL& 245	American Literature II [H]	5		
ENGL& 246	American Literature III [H]	5		
ENGL& 254	World Literature I [H]	5		
ENGL& 255	World Literature II [H]	5		
ENGL& 256	World Literature III [H]	5		
ENGL 257	English Grammar [H]	5		
ENGL 264	English Literature I [H]	5		
ENGL 265	English Literature II [H]	5		
ENGL 266	English Literature III [H]	5		
ENGL 275	The Lord of The Rings [H]	5		
ENGL 280	Lesbian, Gay, Bisexual, Trans, Queer Studies [H]	5		
HIST& 126	World Civilizations I [H]	5		
HIST& 127	World Civilizations II [H]	5		
HIST& 128	World Civilizations III [H]	5		
HIST& 215	Women in U.S. History [H]	5		
HIST& 215 is cross-listed with WS 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 120	Survey of Hispanic Culture [H]	5		
ICS 125	Native American Culture [H]	5		
ICS 130	Survey of Asian American Culture [H]	5		
ICS 135	Survey of African American Cultures [H]	5		
ICS 200	Intercultural Leadership [H]	5		
ICS 222	Columbia Basin Cultures [H]	5		
MUSC& 105	Music Appreciation [H]	5		
MUSC 116	History of Jazz [H]	5		
PHIL& 101	Intro to Philosophy [H]	5		
PHIL 106	Introduction to Logic [H]	5		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHIL 131	World Religions [H]	5		
PHIL 150	Introduction to Ethics [H]	5		
WS 155	Women's Cultural Heritage [H]	5		
WS 215	Women in U.S. History [H]	5		
WS 215 is cross-listed with HIST& 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
World Languages numbered 121 and above (excluding conversational classes). All World Languages courses count as a single subject.		5		
Social & Behavioral Sciences - at least one course must be selected from this group. Courses must be selected from different subjects.				
ANTH& 100	Survey of Anthropology [S/B]	5		
ANTH& 204	Archaeology [S/B]	5		
ANTH& 206	Cultural Anthropology [S/B]	5		
ANTH& 234	Religion & Culture [S/B]	5		
BUS& 101	Introduction to Business [S/B]	5		
CJ& 101	Introduction to Criminal Justice [S/B]	5		
CMST& 102	Intro to Mass Media [S/B]	5		
ECON 110	Economic Trends, Issues and Policy [S/B]	5		
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
ECON 291	History of American Economic Development [S/B]	1–5		
GEOG& 200	Human Geography [S/B]	5		
HIST 107	Chicano History [S/B]	5		
HIST 108	History of Immigration In The U.S. [S/B]	5		
HIST 110	History of Modern East Asia [S/B]	5		
HIST 111	Colonial Latin America [S/B]	5		
HIST 112	Modern Latin America [S/B]	5		
HIST 113	Mexico Since Independence [S/B]	5		
HIST 115	Intro to Middle East History & Society [S/B]	5		
HIST 115 is cross-listed with SOC 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HIST& 146	U.S. History I [S/B]	5		
HIST& 147	U.S. History II [S/B]	5		
HIST& 148	U.S. History III [S/B]	5		
HIST 212	American Military History from the Colonial Period to the Present [S/B]	5		
ICS 220	Globalization [S/B]	5		
ICS 220 is cross-listed with SOC 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 255	Race and Ethnic Relations [S/B]	5		
POLS 104	State and Local Government [S/B]	5		
POLS& 201	Intro Political Theory [S/B]	5		
POLS& 202	United States Government [S/B]	5		
POLS& 203	International Relations [S/B]	5		
POLS& 204	Comparative Government [S/B]	5		
POLS 205	American Political Thought [S/B]	5		
POLS 280	Race and Law in the U.S.[S/B]	5		
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PSYC 201	Social Psychology [S/B]	5		
PSYC 209	Fundamentals of Psychological Research [S/B]	5		
PSYC& 220	Psychological Disorders [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC 110	Gender, Media, & Popular Culture [S/B]	5		
SOC 110 is cross-listed with WS 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 115	Intro to Middle East History & Society [S/B]	5		
SOC 115 is cross-listed with HIST 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 150	Marriage, Family, and Relationships [S/B]	5		
SOC 160	Gender Studies [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
SOC 220	Globalization [S/B]	5		
SOC 220 is cross-listed with ICS 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 221	Sociology of Deviance and Crime [S/B]	5		
SOC 269	Sociology of World Cinema [S/B]	5		
SSCI 290	Social Research Methods [S/B]	4		
and				
SSCI 291	Social Research Methods Lab [S/B]	1		
WS 110	Gender, Media, and Popular Culture [S/B]	5		
WS 110 is cross-listed with SOC 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**15**		

Pre-Major Courses - Chemistry

Sequences of courses should be taken at the same institution.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CHEM& 161	General Chemistry I W/ Lab [M/S]	6		
CHEM& 162	General Chemistry II W/ Lab [M/S]	6		
CHEM& 163	General Chemistry III W/ Lab [M/S]	6		
	Subtotal	**18**		

Pre-Major Courses - Math

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Select 5 credits from the following:				
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
	Subtotal	**5**		

Degree & Certificate Requirements

Pre-Major Courses - Science

Sequences of courses should be taken at the same institution.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Select one series from the following:				
Biology series:				
BIOL& 211	Majors Cellular W/ Lab [M/S]	5		
BIOL& 212	Majors Plant W/ Lab [M/S]	5		
BIOL& 213	Majors Animal W/ Lab [M/S]	5		
Physics series 1:				
PHYS& 114	General Physics I W/ Lab [M/S]	5		
PHYS& 115	General Physics II W/ Lab [M/S]	5		
PHYS& 116	General Physics III W/ Lab [M/S]	5		
Physics series 2:				
PHYS& 221	Engineering Physics I W/ Lab [M/S]	5		
PHYS& 222	Engineering Physics II W/ Lab [M/S]	5		
PHYS& 223	Engineering Physics III W/ Lab [M/S]	5		
	Subtotal	**15**		

Pre-Major Courses - Additional Science

10-15 credits in Physics, Geology, Organic Chemistry, Biology or Mathematics, consisting of courses normally taken for science majors (not for general education), preferably in a two- or three-quarter sequence. Future Biology majors should select organic chemistry or physics.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		0-5		
	Subtotal	**10-15**		

Electives - Program Specific Under Advisement

Sufficient additional college-level credits so that total credits earned are at least 90 credits. These remaining credits may include prerequisites for major courses (e.g. pre-calculus), additional major coursework or specific general education or other university requirements, as approved by the advisor. Select courses based on the requirements or the specific discipline at the baccalaureate institution you plan to attend. **Some baccalaureate programs require physics with calculus. ***A single course cannot count in two areas.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		0-5		
	Subtotal	**10-15**		
	Total Credits Required	**93**		

Graduation Requirements:

The Associate in Science Transfer (AS-T1) degree does NOT guarantee that the student has met the general education requirements at the transfer baccalaureate institution.

- Required minimum 93 credits.
- Required minimum cumulative college-level GPA of 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your completion coach or advisor.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.

Associate in Science Transfer (AS-T1) in Biology/Environmental Science/Chemistry/Geology/Earth Sciences Information:

For transferring students, 85 of the 93 credits must be fully transferable as defined by the Intercollege Relations Commission (ICRC) guidelines to be honored by four-year institutions in Washington. A maximum of 5 restricted elective credits may be used. Due to the specialized nature of many of the listed courses, students should consult their advisor and the catalog of the four-year institution to which they plan to transfer for specific degree requirements.

Associate in Science Transfer (AS-T2/MRP) in Bioengineering and Chemical Engineering

TRANSFER

2026-2027 Degree Requirements

Communication

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
	Subtotal	**5**		

Mathematics/Statistics

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
MATH 255	Differential Equations [M/S] [Q/SR]	5		
	Subtotal	**20**		

Humanities and Social & Behavioral Sciences

Select three courses from the list below. Complete at least one course from each of the two groups. Courses must be selected from three different subject areas with a total of 15 credits required. No more than 5 credits in any World Languages.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Humanities - at least one course must be selected from this group. Courses must be selected from different subjects.				
ART& 100	Art Appreciation [H]	5		
ART 116	Art History Ancient World [H]	5		
ART 117	Art History Medieval-Baroque [H]	5		
ART 118	Art History Modern Times [H]	5		
DRMA& 101	Intro to Theatre [H]	5		
DRMA 215	Survey of Theatre History [H]	5		
ENGL& 111	Intro to Literature [H]	5		
ENGL 140	The Cinema [H]	5		
ENGL 160	Women's Literature [H]	5		
ENGL 180	Multicultural Literature [H]	5		
ENGL 195	Bible As Literature [H]	5		
ENGL 203	Mythology [H]	5		
ENGL 210	Intro to Linguistics [H]	5		
ENGL& 220	Intro to Shakespeare [H]	5		
ENGL& 236	Creative Writing I [H]	5		
ENGL& 237	Creative Writing II [H]	5		
ENGL& 244	American Literature I [H]	5		
ENGL& 245	American Literature II [H]	5		
ENGL& 246	American Literature III [H]	5		
ENGL& 254	World Literature I [H]	5		
ENGL& 255	World Literature II [H]	5		
ENGL& 256	World Literature III [H]	5		
ENGL 257	English Grammar [H]	5		
ENGL 264	English Literature I [H]	5		
ENGL 265	English Literature II [H]	5		
ENGL 266	English Literature III [H]	5		
ENGL 275	The Lord of The Rings [H]	5		
ENGL 280	Lesbian, Gay, Bisexual, Trans, Queer Studies [H]	5		
HIST& 126	World Civilizations I [H]	5		
HIST& 127	World Civilizations II [H]	5		
HIST& 128	World Civilizations III [H]	5		
HIST& 215	Women in U.S. History [H]	5		
HIST& 215 is cross-listed with WS 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 120	Survey of Hispanic Culture [H]	5		
ICS 125	Native American Culture [H]	5		
ICS 130	Survey of Asian American Culture [H]	5		
ICS 135	Survey of African American Cultures [H]	5		
ICS 200	Intercultural Leadership [H]	5		
ICS 222	Columbia Basin Cultures [H]	5		
MUSC& 105	Music Appreciation [H]	5		
MUSC 116	History of Jazz [H]	5		
PHIL& 101	Intro to Philosophy [H]	5		
PHIL 106	Introduction to Logic [H]	5		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHIL 131	World Religions [H]	5		
PHIL 150	Introduction to Ethics [H]	5		
WS 155	Women's Cultural Heritage [H]	5		
WS 215	Women in U.S. History [H]	5		
WS 215 is cross-listed with HIST& 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
World Languages numbered 121 and above (excluding conversational classes). All World Languages courses count as a single subject.		5		
Social & Behavioral Sciences - at least one course must be selected from this group. Courses must be selected from different subjects.				
ANTH& 100	Survey of Anthropology [S/B]	5		
ANTH& 204	Archaeology [S/B]	5		
ANTH& 206	Cultural Anthropology [S/B]	5		
ANTH& 234	Religion & Culture [S/B]	5		
BUS& 101	Introduction to Business [S/B]	5		
CJ& 101	Introduction to Criminal Justice [S/B]	5		
CMST& 102	Intro to Mass Media [S/B]	5		
ECON 110	Economic Trends, Issues and Policy [S/B]	5		
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
ECON 291	History of American Economic Development [S/B]	1–5		
GEOG& 200	Human Geography [S/B]	5		
HIST 107	Chicano History [S/B]	5		
HIST 108	History of Immigration In The U.S. [S/B]	5		
HIST 110	History of Modern East Asia [S/B]	5		
HIST 111	Colonial Latin America [S/B]	5		
HIST 112	Modern Latin America [S/B]	5		
HIST 113	Mexico Since Independence [S/B]	5		
HIST 115	Intro to Middle East History & Society [S/B]	5		
HIST 115 is cross-listed with SOC 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HIST& 146	U.S. History I [S/B]	5		
HIST& 147	U.S. History II [S/B]	5		
HIST& 148	U.S. History III [S/B]	5		
HIST 212	American Military History from the Colonial Period to the Present [S/B]	5		
ICS 220	Globalization [S/B]	5		
ICS 220 is cross-listed with SOC 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 255	Race and Ethnic Relations [S/B]	5		
POLS 104	State and Local Government [S/B]	5		
POLS& 201	Intro Political Theory [S/B]	5		
POLS& 202	United States Government [S/B]	5		
POLS& 203	International Relations [S/B]	5		
POLS& 204	Comparative Government [S/B]	5		
POLS 205	American Political Thought [S/B]	5		
POLS 280	Race and Law in the U.S.[S/B]	5		
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PSYC 201	Social Psychology [S/B]	5		
PSYC 209	Fundamentals of Psychological Research [S/B]	5		
PSYC& 220	Psychological Disorders [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC 110	Gender, Media, & Popular Culture [S/B]	5		
SOC 110 is cross-listed with WS 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 115	Intro to Middle East History & Society [S/B]	5		
SOC 115 is cross-listed with HIST 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 150	Marriage, Family, and Relationships [S/B]	5		
SOC 160	Gender Studies [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
SOC 220	Globalization [S/B]	5		
SOC 220 is cross-listed with ICS 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 221	Sociology of Deviance and Crime [S/B]	5		
SOC 269	Sociology of World Cinema [S/B]	5		
SSCI 290	Social Research Methods [S/B]	4		
and				
SSCI 291	Social Research Methods Lab [S/B]	1		
WS 110	Gender, Media, and Popular Culture [S/B]	5		
WS 110 is cross-listed with SOC 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**15**		

Physics

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHYS& 221	Engineering Physics I W/ Lab [M/S]	5		
PHYS& 222	Engineering Physics II W/ Lab [M/S]	5		
PHYS& 223	Engineering Physics III W/ Lab [M/S]	5		
	Subtotal	**15**		

Chemistry

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CHEM& 161	General Chemistry I W/ Lab [M/S]	5-6		
CHEM& 162	General Chemistry II W/ Lab [M/S]	5-6		
CHEM& 163	General Chemistry III W/ Lab [M/S]	5-6		
CHEM& 241	Organic Chemistry I [M/S]	4		
CHEM& 251	Organic Chemistry I Lab [M/S]	2		
Select 5 to 6 credits from the following:				
CHEM& 242	Organic Chemistry II [M/S]	4		
CHEM& 252	Organic Chemistry II Lab [M/S]	2		
or				
BIOL& 211	Majors Cellular W/ Lab [M/S]	5		
	Subtotal	**26-30**		

Electives

Select a minimum of 3 specialization courses in consultation with an advisor as appropriate for intended specialization in the major and the intended transfer institution.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BIOL& 211	Majors Cellular W/ Lab [M/S]	5		
BIOL& 212	Majors Plant W/ Lab [M/S]	5		
CHEM& 242	Organic Chemistry II [M/S]	4		
CHEM& 252	Organic Chemistry II Lab [M/S]	2		
CHEM 260	Biochemistry [M/S]	5		
CS& 131	Computer Science I C++ [M/S]	5		
CS& 141	Computer Science I Java [M/S]	5		
CS 162	C++2 [RE]	5		
ENGL& 235	Technical Writing [C]	5		
ENGR& 224	Fundamentals of Thermodynamics [RE]	5		
ENT 111	Introduction to Engineering [RE]	5		
MATH 243	Linear Algebra [M/S] [Q/SR]	5		
MATH& 254	Calculus IV [M/S] [Q/SR]	5		
	Subtotal	**14-16**		
	Total Credits Required	**95-101**		

Graduation Requirements:

The Associate in Science Transfer (AS-T1) degree does NOT guarantee that the student has met the general education requirements at the transfer baccalaureate institution.

- Required minimum 93 credits.
- Required minimum cumulative college-level GPA of 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your completion coach or advisor.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.
- Refer to Catalog Option Policy for information about using previous degree requirements.
- For individual college requirements, see Provisions on our Transfer Opportunities webpage.
- Sequences of courses should be completed at one institution. Select courses based on the requirements or the specific discipline at the baccalaureate institution you plan to attend.

Associate in Science Transfer (AS-T2/MRP) in Civil and Mechanical Engineering

TRANSFER

2026-2027 Degree Requirements

Communication

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
	Subtotal	**5**		

Mathematics/Statistics

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
MATH 255	Differential Equations [M/S] [Q/SR]	5		
MATH 243	Linear Algebra [M/S] [Q/SR]	5		
	Subtotal	**25**		

Humanities and Social & Behavioral Sciences

Select three courses from the list below. Complete at least one course from each of the two groups. Courses must be selected from three different subject areas with a total of 15 credits required. No more than 5 credits in any World Languages.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Humanities - at least one course must be selected from this group. Courses must be selected from different subjects.				
ART& 100	Art Appreciation [H]	5		
ART 116	Art History Ancient World [H]	5		
ART 117	Art History Medieval-Baroque [H]	5		
ART 118	Art History Modern Times [H]	5		
DRMA& 101	Intro to Theatre [H]	5		
DRMA 215	Survey of Theatre History [H]	5		
ENGL& 111	Intro to Literature [H]	5		
ENGL 140	The Cinema [H]	5		
ENGL 160	Women's Literature [H]	5		
ENGL 180	Multicultural Literature [H]	5		
ENGL 195	Bible As Literature [H]	5		
ENGL 203	Mythology [H]	5		
ENGL 210	Intro to Linguistics [H]	5		
ENGL& 220	Intro to Shakespeare [H]	5		
ENGL& 236	Creative Writing I [H]	5		
ENGL& 237	Creative Writing II [H]	5		
ENGL& 244	American Literature I [H]	5		
ENGL& 245	American Literature II [H]	5		
ENGL& 246	American Literature III [H]	5		
ENGL& 254	World Literature I [H]	5		
ENGL& 255	World Literature II [H]	5		
ENGL& 256	World Literature III [H]	5		
ENGL 257	English Grammar [H]	5		
ENGL 264	English Literature I [H]	5		
ENGL 265	English Literature II [H]	5		
ENGL 266	English Literature III [H]	5		
ENGL 275	The Lord of The Rings [H]	5		
ENGL 280	Lesbian, Gay, Bisexual, Trans, Queer Studies [H]	5		
HIST& 126	World Civilizations I [H]	5		
HIST& 127	World Civilizations II [H]	5		
HIST& 128	World Civilizations III [H]	5		
HIST& 215	Women in U.S. History [H]	5		
HIST& 215 is cross-listed with WS 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 120	Survey of Hispanic Culture [H]	5		
ICS 125	Native American Culture [H]	5		
ICS 130	Survey of Asian American Culture [H]	5		
ICS 135	Survey of African American Cultures [H]	5		
ICS 200	Intercultural Leadership [H]	5		
ICS 222	Columbia Basin Cultures [H]	5		
MUSC& 105	Music Appreciation [H]	5		
MUSC 116	History of Jazz [H]	5		
PHIL& 101	Intro to Philosophy [H]	5		
PHIL 106	Introduction to Logic [H]	5		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHIL 131	World Religions [H]	5		
PHIL 150	Introduction to Ethics [H]	5		
WS 155	Women's Cultural Heritage [H]	5		
WS 215	Women in U.S. History [H]	5		
WS 215 is cross-listed with HIST& 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
World Languages numbered 121 and above (excluding conversational classes). All World Languages courses count as a single subject.		5		
Social & Behavioral Sciences - at least one course must be selected from this group. Courses must be selected from different subjects. ECON& 201 and ECON& 202 are recommended.				
ANTH& 100	Survey of Anthropology [S/B]	5		
ANTH& 204	Archaeology [S/B]	5		
ANTH& 206	Cultural Anthropology [S/B]	5		
ANTH& 234	Religion & Culture [S/B]	5		
BUS& 101	Introduction to Business [S/B]	5		
CJ& 101	Introduction to Criminal Justice [S/B]	5		
CMST& 102	Intro to Mass Media [S/B]	5		
ECON 110	Economic Trends, Issues and Policy [S/B]	5		
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
ECON 291	History of American Economic Development [S/B]	1–5		
GEOG& 200	Human Geography [S/B]	5		
HIST 107	Chicano History [S/B]	5		
HIST 108	History of Immigration In The U.S. [S/B]	5		
HIST 110	History of Modern East Asia [S/B]	5		
HIST 111	Colonial Latin America [S/B]	5		
HIST 112	Modern Latin America [S/B]	5		
HIST 113	Mexico Since Independence [S/B]	5		
HIST 115	Intro to Middle East History & Society [S/B]	5		
HIST 115 is cross-listed with SOC 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HIST& 146	U.S. History I [S/B]	5		
HIST& 147	U.S. History II [S/B]	5		
HIST& 148	U.S. History III [S/B]	5		
HIST 212	American Military History from the Colonial Period to the Present [S/B]	5		
ICS 220	Globalization [S/B]	5		
ICS 220 is cross-listed with SOC 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 255	Race and Ethnic Relations [S/B]	5		
POLS 104	State and Local Government [S/B]	5		
POLS& 201	Intro Political Theory [S/B]	5		
POLS& 202	United States Government [S/B]	5		
POLS& 203	International Relations [S/B]	5		
POLS& 204	Comparative Government [S/B]	5		
POLS 205	American Political Thought [S/B]	5		
POLS 280	Race and Law in the U.S.[S/B]	5		
PSYC& 100	General Psychology [S/B]	5		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PSYC& 200	Lifespan Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
PSYC 209	Fundamentals of Psychological Research [S/B]	5		
PSYC& 220	Psychological Disorders [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC 110	Gender, Media, & Popular Culture [S/B]	5		
SOC 110 is cross-listed with WS 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 115	Intro to Middle East History & Society [S/B]	5		
SOC 115 is cross-listed with HIST 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 150	Marriage, Family, and Relationships [S/B]	5		
SOC 160	Gender Studies [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
SOC 220	Globalization [S/B]	5		
SOC 220 is cross-listed with ICS 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 221	Sociology of Deviance and Crime [S/B]	5		
SOC 269	Sociology of World Cinema [S/B]	5		
SSCI 290	Social Research Methods [S/B]	4		
and				
SSCI 291	Social Research Methods Lab [S/B]	1		
WS 110	Gender, Media, and Popular Culture [S/B]	5		
WS 110 is cross-listed with SOC 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**15**		

Physics

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHYS& 221	Engineering Physics I W/ Lab [M/S]	5		
PHYS& 222	Engineering Physics II W/ Lab [M/S]	5		
PHYS& 223	Engineering Physics III W/ Lab [M/S]	5		
	Subtotal	**15**		

Chemistry

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CHEM& 161	General Chemistry I W/ Lab [M/S]	5-6		
CHEM& 162	General Chemistry II W/ Lab [M/S]	5-6		
	Subtotal	**10-12**		

Major Required Credits

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGR& 214	Statics	5		
ENGR& 215	Dynamics	5		
ENGR& 225	Mechanics of Materials [RE]	5		
	Subtotal	**15**		

Electives

Select a minimum of 4 specialization courses in consultation with an advisor as appropriate for intended specialization in the major and the intended transfer institution.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BIOL& 211	Majors Cellular W/ Lab [M/S]	5		
CHEM& 163	General Chemistry III W/ Lab [M/S]	5-6		
CS& 131	Computer Science I C++ [M/S]	5		
CS 162	C++2 [RE]	5		
CS& 141	Computer Science I Java [M/S]	5		
ENGL& 235	Technical Writing [C]	5		
ENGR& 224	Fundamentals of Thermodynamics [RE]	5		
ENT 111	Introduction to Engineering [RE]	5		
MATH& 254	Calculus IV [M/S] [Q/SR]	5		
	Subtotal	**20-21**		
	Total Credits Required	**105-108**		

Graduation Requirements:

The Associate in Science Transfer (AS-T2) degree does NOT guarantee that the student has met the general education requirements at the transfer baccalaureate institution.

- Required minimum 105 credits.
- Required minimum cumulative college-level GPA of 2.0.
- Minimum GPA requirements are established by each participating baccalaureate institution. Meeting the minimum GPA does not guarantee admission. Engineering programs are competitive and may require a higher GPA than a 2.0 overall or a higher GPA in specific courses.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your completion coach or advisor.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.
- Refer to Catalog Option Policy for information about using previous degree requirements.
- For individual college requirements, see Provisions on our Transfer Opportunities webpage.
- Sequences of courses should be completed at one institution. Select courses based on the requirements or the specific discipline at the baccalaureate institution you plan to attend.

Associate in Science Transfer (AS-T2) in Engineering, Physics, Atmospheric Sciences

TRANSFER

2026-2027 Degree Requirements

Communication

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
	Subtotal	**5**		

Mathematics

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Mathematics - select 10 credits from the following:				
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
MATH 243	Linear Algebra [M/S] [Q/SR]	5		
MATH& 254	Calculus IV [M/S] [Q/SR]	5		
MATH 255	Differential Equations [M/S] [Q/SR]	5		
	Subtotal	**10**		

Humanities and Social & Behavioral Sciences

Select three courses from the list below. Complete at least one course from each of the two groups. Courses must be selected from three different subject areas with a total of 15 credits required. No more than 5 credits in any World Languages.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Humanities - at least one course must be selected from this group. Courses must be selected from different subjects.				
ART& 100	Art Appreciation [H]	5		
ART 116	Art History Ancient World [H]	5		
ART 117	Art History Medieval-Baroque [H]	5		
ART 118	Art History Modern Times [H]	5		
DRMA& 101	Intro to Theatre [H]	5		
DRMA 215	Survey of Theatre History [H]	5		
ENGL& 111	Intro to Literature [H]	5		
ENGL 140	The Cinema [H]	5		
ENGL 160	Women's Literature [H]	5		
ENGL 180	Multicultural Literature [H]	5		
ENGL 195	Bible As Literature [H]	5		
ENGL 203	Mythology [H]	5		
ENGL 210	Intro to Linguistics [H]	5		
ENGL& 220	Intro to Shakespeare [H]	5		
ENGL& 236	Creative Writing I [H]	5		
ENGL& 237	Creative Writing II [H]	5		
ENGL& 244	American Literature I [H]	5		
ENGL& 245	American Literature II [H]	5		
ENGL& 246	American Literature III [H]	5		
ENGL& 254	World Literature I [H]	5		
ENGL& 255	World Literature II [H]	5		
ENGL& 256	World Literature III [H]	5		
ENGL 257	English Grammar [H]	5		
ENGL 264	English Literature I [H]	5		
ENGL 265	English Literature II [H]	5		
ENGL 266	English Literature III [H]	5		
ENGL 275	The Lord of The Rings [H]	5		
ENGL 280	Lesbian, Gay, Bisexual, Trans, Queer Studies [H]	5		
HIST& 126	World Civilizations I [H]	5		
HIST& 127	World Civilizations II [H]	5		
HIST& 128	World Civilizations III [H]	5		
HIST& 215	Women in U.S. History [H]	5		
HIST& 215 is cross-listed with WS 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 120	Survey of Hispanic Culture [H]	5		
ICS 125	Native American Culture [H]	5		
ICS 130	Survey of Asian American Culture [H]	5		
ICS 135	Survey of African American Cultures [H]	5		
ICS 200	Intercultural Leadership [H]	5		
ICS 222	Columbia Basin Cultures [H]	5		
MUSC& 105	Music Appreciation [H]	5		
MUSC 116	History of Jazz [H]	5		
PHIL& 101	Intro to Philosophy [H]	5		
PHIL 106	Introduction to Logic [H]	5		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHIL 131	World Religions [H]	5		
PHIL 150	Introduction to Ethics [H]	5		
WS 155	Women's Cultural Heritage [H]	5		
WS 215	Women in U.S. History [H]	5		
WS 215 is cross-listed with HIST& 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
World Languages numbered 121 and above (excluding conversational classes). All World Languages courses count as a single subject.		5		
Social & Behavioral Sciences - at least one course must be selected from this group. Courses must be selected from different subjects.				
ANTH& 100	Survey of Anthropology [S/B]	5		
ANTH& 204	Archaeology [S/B]	5		
ANTH& 206	Cultural Anthropology [S/B]	5		
ANTH& 234	Religion & Culture [S/B]	5		
BUS& 101	Introduction to Business [S/B]	5		
CJ& 101	Introduction to Criminal Justice [S/B]	5		
CMST& 102	Intro to Mass Media [S/B]	5		
ECON 110	Economic Trends, Issues and Policy [S/B]	5		
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
ECON 291	History of American Economic Development [S/B]	1–5		
GEOG& 200	Human Geography [S/B]	5		
HIST 107	Chicano History [S/B]	5		
HIST 108	History of Immigration In The U.S. [S/B]	5		
HIST 110	History of Modern East Asia [S/B]	5		
HIST 111	Colonial Latin America [S/B]	5		
HIST 112	Modern Latin America [S/B]	5		
HIST 113	Mexico Since Independence [S/B]	5		
HIST 115	Intro to Middle East History & Society [S/B]	5		
HIST 115 is cross-listed with SOC 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HIST& 146	U.S. History I [S/B]	5		
HIST& 147	U.S. History II [S/B]	5		
HIST& 148	U.S. History III [S/B]	5		
HIST 212	American Military History from the Colonial Period to the Present [S/B]	5		
ICS 220	Globalization [S/B]	5		
ICS 220 is cross-listed with SOC 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 255	Race and Ethnic Relations [S/B]	5		
POLS 104	State and Local Government [S/B]	5		
POLS& 201	Intro Political Theory [S/B]	5		
POLS& 202	United States Government [S/B]	5		
POLS& 203	International Relations [S/B]	5		
POLS& 204	Comparative Government [S/B]	5		
POLS 205	American Political Thought [S/B]	5		
POLS 280	Race and Law in the U.S.[S/B]	5		
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PSYC 201	Social Psychology [S/B]	5		
PSYC 209	Fundamentals of Psychological Research [S/B]	5		
PSYC& 220	Psychological Disorders [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC 110	Gender, Media, & Popular Culture [S/B]	5		
SOC 110 is cross-listed with WS 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 115	Intro to Middle East History & Society [S/B]	5		
SOC 115 is cross-listed with HIST 115 A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 150	Marriage, Family, and Relationships [S/B]	5		
SOC 160	Gender Studies [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
SOC 220	Globalization [S/B]	5		
SOC 220 is cross-listed with ICS 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 221	Sociology of Deviance and Crime [S/B]	5		
SOC 269	Sociology of World Cinema [S/B]	5		
SSCI 290	Social Research Methods [S/B]	4		
and				
SSCI 291	Social Research Methods Lab [S/B]	1		
WS 110	Gender, Media, and Popular Culture [S/B]	5		
WS 110 is cross-listed with SOC 110. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**15**		

Pre-Major Courses - Science

Any Science based on program requirements or CHEM& 161 for Engineering majors.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Any Science based on program requirements or CHEM& 161 for Engineering majors.		5-6		
	Subtotal	**5-6**		

Pre-Major Courses - Math

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Select 5 credits from the following:				
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
	Subtotal	**5**		

Degree & Certificate Requirements

Pre-Major Courses - Physics

Sequences of courses should be taken at the same institution.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Select one series from the following:				
Physics series 1:				
PHYS& 114	General Physics I W/ Lab [M/S]	5		
PHYS& 115	General Physics II W/ Lab [M/S]	5		
PHYS& 116	General Physics III W/ Lab [M/S]	5		
Physics series 2:				
PHYS& 221	Engineering Physics I W/ Lab [M/S]	5		
PHYS& 222	Engineering Physics II W/ Lab [M/S]	5		
PHYS& 223	Engineering Physics III W/ Lab [M/S]	5		
	Subtotal	**15**		

Electives (Program Specific Under Advisement)

The remaining 35 quarter credits should be planned with the help of an advisor based on the requirements of the specific discipline at the baccalaureate institution the student selects to attend. For Engineering disciplines, these credits should include a design component consistent with ABET accreditation standards. **Some baccalaureate programs require physics with calculus. ***A single course cannot count in two areas.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		5		
		5		
		5		
		5		
		5		
	Subtotal	**35**		
	Total Credits Required	**90-91**		

Graduation Requirements:

Sequences of courses should be completed at one institution. Select courses based on the requirements or the specific discipline at the baccalaureate institution you plan to attend.

The Associate in Science Transfer (AS-T2) degree does NOT guarantee that the student has met the general education requirements at the transfer baccalaureate institution.

- Required minimum 90 credits.
- Required minimum cumulative college-level GPA of 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your completion coach or advisor.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.

Associate in Science Transfer (AS-T2) in Engineering/Physics/Atmospheric Sciences Information:

For transferring students, 85 of the 90 credits must be fully transferable as defined by the Intercollege Relations Commission (ICRC) guidelines to be honored by four-year institutions in Washington. A maximum of 5 restricted elective credits may be used. Due to the specialized nature of many of the listed courses, students should consult their advisor and the catalog of the four-year institution to which they plan to transfer for specific degree requirements.

Accounting Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Students must earn a minimum 2.0 grade in all Major courses.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ACCT& 201	Principles of Accounting I	5		
ACCT& 202	Principles of Accounting II	5		
ACCT& 203	Principles of Accounting III	5		
ACCT 111	Computerized Accounting [RE]	5		
ACCT 105	Business & Payroll Tax Accounting [RE]	5		
ACCT 107	Federal Income Taxes [RE]	5		
ACCT 222	Advanced Microsoft Excel [RE]	5		
ACCT 222 is cross-listed with BUS 222. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**35**		

Major Support

Students must earn a minimum 2.0 grade in all Major Support courses. Select 30 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ACCT 101	Introduction to Accounting [RE]	5		
BUS 120	Personal Finance [RE]	5		
or				
BUS 210	Managing Personal Finance [RE]	5		
BUS 250	Management Information Systems	5		
BUS 263	Principles of Finance [RE]	5		
BUS 271	Human Relations in Business [RE]	5		
BUS 295	Business Internship [RE]	5		
BUS& 201	Business Law	5		
ECON 110	Economic Trends, Issues and Policy [S/B]	5		
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
CS 101	Intro to Computers & Information Technology	5		
or 5 credits from the following:				
CA 120	Introduction to Computer Applications [RE]	3		
and				
CA 140	Introduction to Microsoft Word [RE]	1		
and				
CA 150	Introduction to Microsoft Excel [RE]	1		
and				
CA 170	Introduction to Microsoft Outlook [RE]	1		
	Subtotal	**30**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
English - select 5 additional credits from the following:				
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Mathematics - select 5 credits from the following:				
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH 147	Finite Math [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
Social and Behavioral Sciences - 5 credits:				
BUS& 101	Introduction to Business [S/B]	5		
Communication - select 5 credits from the following:				
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
	Subtotal	**25**		
	Total Credits Required	**90**		

Accounting One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Students must earn a minimum 2.0 grade in all Major courses.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ACCT& 201	Principles of Accounting I	5		
ACCT& 202	Principles of Accounting II	5		
Select 2 courses from the following:				
ACCT 101	Introduction to Accounting [RE]	5		
ACCT 105	Business & Payroll Tax Accounting [RE]	5		
ACCT 107	Federal Income Taxes [RE]	5		
ACCT 111	Computerized Accounting [RE]	5		
	Subtotal	**20**		

Major Support

Students must earn a minimum 2.0 grade in all Major Support courses.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Select 5 credits from the following:				
ACCT 222	Advanced Microsoft Excel [RE]	5		
and				
CS 101	Intro to Computers & Information Technology	5		
or				
CA 120	Introduction to Computer Applications [RE]	3		
and				
CA 140	Introduction to Microsoft Word [RE]	1		
and				
CA 150	Introduction to Microsoft Excel [RE]	1		
and				
CA 170	Introduction to Microsoft Outlook [RE]	1		
Select 10 credits from the following:				
ACCT 101	Introduction to Accounting [RE]	5		
ACCT 105	Business & Payroll Tax Accounting [RE]	5		
ACCT 107	Federal Income Taxes [RE]	5		
ACCT 111	Computerized Accounting [RE]	5		
ACCT& 203	Principles of Accounting III	5		
BUS 120	Personal Finance [RE]	5		
or				
BUS 210	Managing Personal Finance [RE]	5		
BUS 250	Management Information Systems	5		
BUS 263	Principles of Finance [RE]	5		
BUS 271	Human Relations in Business [RE]	5		
BUS 295	Business Internship [RE]	5		
BUS& 201	Business Law	5		
ECON 110	Economic Trends, Issues and Policy [S/B]	5		
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
	Subtotal	**15**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Mathematics - select 5 credits from the following:				
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH 147	Finite Math [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
Social and Behavioral Sciences - 5 credits:				
BUS& 101	Introduction to Business [S/B]	5		
Communication - select 5 credits from the following:				
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
	Subtotal	**20**		
	Total Credits Required	**55**		

Administrative Assistant Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AOT 117	Office Orientation [RE]	4		
AOT 142	General Office Procedures [RE]	5		
CA 155	Intermediate Microsoft Excel [RE]	2		
CA 170	Introduction to Microsoft Outlook [RE]	1		
	Subtotal	**12**		

Major Support

Select 0 to 7 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CA 101	Introduction to Keyboarding [RE]	2		
CA 120	Introduction to Computer Applications [RE]	3		
CA 140	Introduction to Microsoft Word [RE]	1		
CA 145	Intermediate Microsoft Word Processing [RE]	2		
CA 150	Introduction to Microsoft Excel [RE]	1		
CA 160	Introduction to Microsoft PowerPoint [RE]	1		
CA 165	Intermediate Microsoft PowerPoint [RE]	2		
CS 101	Intro to Computers & Information Technology	5		
	Subtotal	**0-7**		
	Total Credits Required	**12-19**		

Degree & Certificate Requirements

Agribusiness Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ACCT 101	Introduction to Accounting [RE]	5		
ACCT& 201	Principles of Accounting I	5		
BUS& 101	Introduction to Business [S/B]	5		
BUS 263	Principles of Finance [RE]	5		
BUS 271	Human Relations in Business [RE]	5		
CS 101	Intro to Computers & Information Technology	5		
Select 10 credits from the following:				
BUS 265	Marketing Principles [RE]	5		
MRKT 102	Introduction to Digital Marketing [RE]	5		
BUS 179	Introduction to Entrepreneurship [RE]	5		
BUS 185	Leading & Managing Teams [RE]	5		
BUS 180	Professionalism & Customer Service [RE]	5		
	Subtotal	**35**		

Major Support

Select 35 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AG 289	Agriculture Business Concepts [RE]	5		
Select 30 credits from the following and/or AG, AFS, or HORT courses:				
BIOL 140	Fundamentals of Botany W/ Lab [M/S]	5		
BIOL 201	Soils W/ Lab [M/S]	5		
BIOL 201 is cross-listed with AG 201. Students may not use equivalent cross-listed courses for the same graduation requirement.				
BIOL 252	Insects of Economic Importance W/ Lab [M/S]	5		
BIOL 252 is cross-listed with AG 252. Students may not use equivalent cross-listed courses for the same graduation requirement.				
		5		
		5		
		5		
		5		
		5		
	Subtotal	**35**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - 10 credits:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
or				
ENGL& 235	Technical Writing [C]	5		
Mathematics - select 5 credits:				
MATH 106+	MATH 106 or above (except MATH 108)	5		
Social & Behavioral Sciences - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
Communication - select 3 to 5 credits from the following:				
CMST 104	Speech Essentials [C]	3		
CMST 110	Communication Behavior [C]	3		
CMST& 220	Public Speaking [C]	5		
	Subtotal	**23-25**		
	Total Credits Required	**93-95**		

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

Agriculture Production Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AG 101	Crop Production I Field Crops W/ Lab [RE]	4		
AG 107	Agriculture Safety [RE]	3		
AG 117	Agriculture Mechanics and Machinery W/ Lab [RE]	4		
AG 140	Weed Science W/ Lab [RE]	4		
AG 181	Irrigation Principles and Management W/ Lab [RE]	4		
BIOL 252	Insects of Economic Importance W/ Lab [M/S]	5		
AG 221	Introduction to Precision Agriculture [RE]	3		
BIOL 201	Soils W/ Lab [M/S]	5		
BIOL 201 is cross-listed with AG 201. Students may not use equivalent cross-listed courses for the same graduation requirement.				
AG 222	Advanced Precision Agriculture W/ Lab [RE]	4		
AG 250	GPS and GIS Applications W/ Lab [RE]	4		
CS 101	Intro to Computers & Information Technology	5		
AG 232	Crop Production II Fruit & Veg Production W/ Lab [RE]	4		
HORT 202	Cultivated Plants W/Lab [RE]	5		
HORT 203	Crop Growth & Development W/ Lab [RE]	5		
HORT 242	Hydroponic Technology w/ Lab [RE]	4		
HORT 235	Greenhouse Production and Management W/ Lab [RE]	3		
AG 289	Agriculture Business Concepts [RE]	5		
AFS 101	Introduction to Agricultural Systems	5		
AG 297	Agriculture Internship [RE]	3		
	Subtotal	**79**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
ENGL& 101	English Composition I [C]	5		
CMST& 220	Public Speaking [C]	5		
Mathematics - select 5 credits from the following:				
MATH& 107	Math In Society [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
	Subtotal	**20**		
	Total Credits Required	**99**		

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

Applied Management Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

BAS-AM degree requires a minimum of 90 credits of 300- and 400-level courses

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - 15 credits:				
CMST 415	Applied Professional Communication	5		
ENGL& 101	English Composition I [C]	5		
ENGL 315	Writing for Health Professionals [C]	5		
or				
ENGL 410	Professional & Organizational Communication [C]	5		
Quantitative/Symbolic Reasoning - select 5 credits from the following:				
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
Humanities - select 5 credits from the following:				
ICS 310	American Diversity [H]	5		
ICS 320	Culture and Health [H]	5		
Humanities - select 5 additional credits from the following:				
PHIL 305	Professional Ethics [H]	5		
PHIL 315	Professional Ethics In Healthcare [H]	5		
Social & Behavioral Sciences* - 5 credits				
BUS& 101	Introduction to Business [S/B]	5		
Social & Behavioral Sciences* - select 5 additional credits from the following:				
ECON 305	Managerial Economics [S/B]	5		
ECON 315	Economics of Healthcare [S/B]	5		
Note: ECON 305 preferred for General Concentration. Note: ECON 315 preferred for Healthcare Concentration.				
Mathematical & Natural Science* - select 10 credits from the following:				
ENVS 310	Environmental Issues [M/S]	5		
Natural Science w/ Lab		5		
Additional courses from the above distribution lists* - select 10 credits: Communication, Quantitative/Symbolic Reasoning, Social & Behavioral Sciences, Humanities or Mathematical & Natural Science				
		5		
		5		
	Subtotal	**60**		

Degree & Certificate Requirements

Major Support**

Course credits used for major support should (1) be related to the core coursework utilized by the student to procure the prerequisite degree, (2) represent excess general education credits and/or (3) be in a related field to the BAS concentration being pursued (e.g., BUS/ACCT for General; BIOL/HSCI for Healthcare Administration; AG/HORT for Agriculture).

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ACCT 101	Introduction to Accounting [RE]	5		
or				
ACCT& 202	Principles of Accounting II	5		
CS 101	Intro to Computers & Information Technology	5		
		5		
		5		
		5		
		5		
		5		
		5		
		5		
		5		
		5		
		5		
		5		
	Subtotal	**60**		

Available concentrations: General, Healthcare Administration or Agriculture
Choose one concentration from below:

Degree & Certificate Requirements

General

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMGT 300	Cross-Cultural Logistics and Global Management	5		
AMGT 301	Contemporary Issues in Business & Management	5		
AMGT 302	Leadership & Tactical Management	5		
AMGT 303	Human Resources and Organizational Culture	5		
AMGT 303 is cross-listed with HCAD 303. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 304	Investing & Capital Management	5		
AMGT 304 is cross-listed with AG 304. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 306	Business Planning and Strategy	5		
AMGT 401	Legal Issues & Ethics for Managers	5		
AMGT 401 is cross-listed with HCAD 401. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 402	Information & Data Analytics	5		
AMGT 402 is cross-listed with AG 402, HCAD 402, and NRS 315. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 404	Operations Management & Evaluation	5		
AMGT 404 is cross-listed with AG 404 and HCAD 404. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 480	Applied Management Capstone	10		
AMGT 480 is cross-listed with AG 480 and HCAD 480. A student may not use equivalent cross-listed courses for the same graduation requirement.				
General Electives - select 5 credits from the following:				
AMGT 317	BAS Special Topics	1–5		
AMGT 389	BAS Independent Study	1–5		
AMGT 403	Public Management & Administration	5		
AMGT 470	BAS Internship	1–5		
AMGT 470 is cross-listed with AG 470. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 489	BAS Independent Study	1–5		
	Subtotal	**60**		
	Total Credits Required	**180**		

Healthcare Administration

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMGT 300	Cross-Cultural Logistics and Global Management	5		
AMGT 301	Contemporary Issues in Business & Management	5		
AMGT 302	Leadership & Tactical Management	5		
AMGT 304	Investing & Capital Management	5		
AMGT 304 is cross-listed with AG 304. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 306	Business Planning and Strategy	5		
HCAD 303	Human Resources and Organizational Culture in Healthcare	5		
HCAD 303 is cross-listed with AMGT 303. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 401	Legal Issues and Ethics in Healthcare Administration	5		
HCAD 401 is cross-listed with AMGT 401. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 402	Healthcare Information & Data Analytics	5		
HCAD 402 is cross-listed with AG 402, AMGT 402, and NRS 315. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 404	Healthcare Operations Management & Evaluation	5		
HCAD 404 is cross-listed with AG 404 and AMGT 404. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 480	Healthcare Administration Capstone	10		
HCAD 480 is cross-listed with AG 480 and AMGT 480. A student may not use equivalent cross-listed courses for the same graduation requirement.				
Healthcare Administration Electives - select 5 credits from the following:				
AMGT 317	BAS Special Topics	1–5		
AMGT 389	BAS Independent Study	1–5		
AMGT 403	Public Management & Administration	5		
AMGT 470	BAS Internship	1–5		
AMGT 489	BAS Independent Study	1–5		
	Subtotal	**60**		
	Total Credits Required	**180**		

Degree & Certificate Requirements

Agriculture

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMGT 300	Cross-Cultural Logistics and Global Management	5		
AMGT 301	Contemporary Issues in Business & Management	5		
AMGT 302	Leadership & Tactical Management	5		
AMGT 303	Human Resources and Organizational Culture	5		
AMGT 303 is cross-listed with HCAD 303 A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 304	Investing & Capital Management	5		
AMGT 304 is cross-listed with AG 304. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 306	Business Planning and Strategy	5		
AMGT 401	Legal Issues & Ethics for Managers	5		
AMGT 401 is cross-listed with HCAD 401. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AG 402	Ag Information & Data Analytics	5		
AG 402 is cross-listed with AMGT 402, HCAD 402, and NRS 315. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AG 404	Agriculture Operations Management & Evaluation	5		
AG 404 is cross-listed with AMGT 404 and HCAD 404. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AG 480	Agriculture Management Capstone	10		
AG 480 is cross-listed with AMGT 480 and HCAD 480. A student may not use equivalent cross-listed courses for the same graduation requirement.				
Agriculture Electives - select 5 credits from the following:				
AMGT 317	BAS Special Topics	1–5		
AMGT 389	BAS Independent Study	1–5		
AMGT 403	Public Management & Administration	5		
AG 470	Agriculture Management Internship	1-5		
AG 470 is cross-listed with AMGT 470. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 489	BAS Independent Study	1–5		
	Subtotal	**60**		
	Total Credits Required	**180**		

Note:

*Course selections must meet the distribution requirements for the AA/DTA degree and align with the distribution sections of the BAS degree.
**Course credits used for major support should be discussed with your completion coach or academic advisor.
***A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

- Students must earn a minimum 2.0 grade in all upper-level (300- and 400-level) courses.
- Required minimum 180 credits.
- Required minimum cumulative GPA 2.0.
- Minimum grade per distribution course 2.0.

Degree & Certificate Requirements

Automotive Maintenance and Light Repair One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 107	Introduction to Automotive Technology I & Lab [RE]	4		
AMT 113	Introduction to Automotive Technology II & Lab [RE]	10		
AMT 119	Automotive Steering and Suspension Systems & Lab [RE]	7		
AMT 120	Basic Electrical Systems, Electronics & Lab [RE]	8		
AMT 123	Automotive Brake Systems & Lab [RE]	7		
AMT 220	Advanced Electrical and Troubleshooting & Lab [RE]	8		
	Subtotal	**44**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Select 0 to 5 credits from the following:				
AMT 140	Automotive Internship [RE]	1–5		
	Subtotal	**0-5**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Mathematics - select 5 credits:				
MATH 100+	MATH 100 or higher	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Note: ENGL 103 is preferred.				
	Subtotal	**10**		
	Total Credits Required	**54-59**		

Note:

Students must earn a minimum 2.0 grade in all AMT courses.

Degree & Certificate Requirements

Automotive Technology Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 107	Introduction to Automotive Technology I & Lab [RE]	4		
AMT 113	Introduction to Automotive Technology II & Lab [RE]	10		
AMT 119	Automotive Steering and Suspension Systems & Lab [RE]	7		
AMT 120	Basic Electrical Systems, Electronics & Lab [RE]	8		
AMT 123	Automotive Brake Systems & Lab [RE]	7		
AMT 129	Engine Systems, Servicing & Lab [RE]	8		
AMT 133	Engine Repair and Rebuild & Lab [RE]	7		
AMT 140	Automotive Internship [RE]	5		
AMT 220	Advanced Electrical and Troubleshooting & Lab [RE]	8		
AMT 230	Automatic Transmissions & Lab [RE]	7		
AMT 233	Manual Transmission, Drivetrain, & Lab [RE]	7		
AMT 240	Drivability Diagnostics & Lab [RE]	9		
AMT 243	Heating, Ventilation & AC Systems & Lab [RE]	5		
	Subtotal	**92**		

Major Support

Select 0 to 17 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 104	Diesel Engine Theory [RE]	2		
AMT 251	Hybrid Operations and Safety [RE]	3		
AMT 252	High Voltage Basic Operations [RE]	3		
AMT 253	Basic Maintenance and Servicing of Hybrids [RE]	3		
AMT 254	High Voltage Diagnostics [RE]	3		
AMT 255	Component Replacement [RE]	3		
	Subtotal	**0-17**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH 100+	MATH 100 or higher	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Note: ENGL 103 preferred				
Human Relations - select 3 to 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
PSYC 103	Applied Psychology	3		
BUS 271	Human Relations in Business [RE]	5		
Communication - select 3 credits from the following:				
CMST 103	Workplace Communication [RE]	3		
CMST 110	Communication Behavior [C]	3		
Note: CMST 103 preferred				

Subtotal	**16-18**
Total Credits Required	**108-127**

Note:

- Students must earn a minimum 2.0 grade in all AMT courses.
- Required minimum cumulative GPA 2.0.

Degree & Certificate Requirements

Business Administration Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ACCT 101	Introduction to Accounting [RE]	5		
or				
ACCT& 201	Principles of Accounting I	5		
BUS 120	Personal Finance [RE]	5		
or				
BUS 210	Managing Personal Finance [RE]	5		
BUS 250	Management Information Systems	5		
BUS 262	Management Principles [RE]	5		
BUS 263	Principles of Finance [RE]	5		
BUS 265	Marketing Principles [RE]	5		
BUS 271	Human Relations in Business [RE]	5		
BUS& 201	Business Law	5		
ACCT, BUS, CS, MRKT, or PROJ Elective Courses:				
		5		
		5		
Business - select 10 credits from the following:				
BUS 180	Professionalism & Customer Service [RE]	5		
BUS 185	Leading & Managing Teams [RE]	5		
BUS 190	Leadership Practicum [RE]	5		
	Subtotal	**60**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Communication - select 5 credits from the following:				
CMST& 210	Interpersonal Communication [C]	5		
CMST 260	Multicultural Communication [C]	5		
Mathematics - select 5 credits from the following:				
MATH 106+	MATH 106 or above	5		
Social & Behavioral Sciences				
BUS& 101	Introduction to Business [S/B]	5		
Select 5 credits from the following:				
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
Mathematical & Natural Science				
ENVS& 101	Intro to Environmental Science W/Lab [M/S]	5		
	Subtotal	**30**		
	Total Credits Required	**90**		

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

Business Administration One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 250	Management Information Systems	5		
BUS 262	Management Principles [RE]	5		
BUS 263	Principles of Finance [RE]	5		
BUS 265	Marketing Principles [RE]	5		
BUS& 201	Business Law	5		
BUS 271	Human Relations in Business [RE]	5		
	Subtotal	**30**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Communication - select 5 credits from the following:				
CMST& 210	Interpersonal Communication [C]	5		
CMST 260	Multicultural Communication [C]	5		
Mathematics - select 5 credits from the following:				
MATH 106+	MATH 106 or above	5		
Social & Behavioral Sciences				
BUS& 101	Introduction to Business [S/B]	5		
	Subtotal	**20**		
	Total Credits Required	**50**		

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

Degree & Certificate Requirements

Business Associate in Arts & Sciences (AA/DTA/MRP)

Direct Transfer Agreement/Major Related Program

2026-2027 Degree Requirements

Some colleges/universities have requirements for admissions to the business major that go beyond those specified below. Students can possibly meet these requirements by careful selection of distribution and additional elective courses. Students should work with a counselor, completion coach or academic advisor and the catalog of the four-year institution to which they plan to transfer for further guidance specific to their goals. Early in the program, students should check with their intended transfer university/college advisor for specific admissions and business program requirements for course choices where options are listed for Humanities, Mathematical & Natural Science, Social & Behavioral Science and electives. A cumulative college-level GPA of 2.0 is required. Some transfer institutions require a higher overall GPA, a higher GPA in a subset of courses, or a specific minimum grade in one or more courses. Check with your planned transfer institution for these requirements.

Communication *1

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
	Subtotal	**10**		

Quantitative/Symbolic Reasoning

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Select 5 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH 147	Finite Math [M/S] [Q/SR]	5		
Note: MATH 147 recommended				
Select 5 credits from the following:				
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
Note: MATH& 148 recommended				
	Subtotal	**10**		

Humanities *2 *3

No more than 10 credits per discipline area; only 5 credits of world language will apply. Course selections must meet the distribution requirements for the AA degree.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		5		
	Subtotal	**15**		

Social & Behavioral Sciences *4

Course selections must meet the distribution requirements for the AA degree

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
Social Science Course Note: BUS& 101 is recommended		5		
	Subtotal	**15**		

Degree & Certificate Requirements

Mathematical & Natural Science *5

Course selections must meet the distribution requirements for the AA degree

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
Select one physical, biological and/or earth science, including at least one lab course:				
		5		
Select one physical, biological or earth science course:				
		5		
	Subtotal	**15**		

Business *6

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ACCT& 201	Principles of Accounting I	5		
ACCT& 202	Principles of Accounting II	5		
ACCT& 203	Principles of Accounting III	5		
BUS& 201	Business Law	5		
	Subtotal	**20**		

Electives *7

Computer Science course or other appropriate elective

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 250	Management Information Systems	5		
Note: BUS 250 recommended				
	Subtotal	**5**		
	Total Credits Required	**90**		

Graduation Requirements:

- Required minimum 90 credits.
- Required minimum cumulative college-level GPA of 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your counselor, completion coach or facultyadvisor.
- Maximum three credits of PE may be applied.
- Refer to Catalog Option Policy for information about using previous degree requirements.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.
- For individual college requirements, see Provisions on our Transfer Opportunities webpage.

*1 Eastern Washington University (EWU) - In addition to ENGL& 101, the second English Composition course must be equivalent to EWU's English 201 Composition course.

*2 Students intending an international business major should consult their potential transfer institutions regarding the need for world language.

*3 Washington State University (WSU) - Business students should complete CMST& 220 which for the Business AA/DTA/MRP will count as a humanities class.

*4 Check with transfer institution for best selection for third social science course.

*5 Western Washington University (WWU) - Students intending the manufacturing management major should consult WWU regarding the selection of natural science courses required for admission to that major.

*6

- EWU, Central Washington University (CWU), University of Washington (UW), WSU, WWU, Gonzaga University, and Seattle Pacific University (SPU) - students should enroll in BUS& 201.
- Heritage, Pacific Lutheran University (PLU), SU, and Walla Walla University - a lower-division business law class is not required.
- International students - those who completed a business course specific to their home country must take a business law course at a U.S. Institution in order to demonstrate proficiency in U.S. business law.

*7

- Gonzaga, Heritage, PLU, WSU, and SPU - there are requirements for admission to the business major that go beyond the above specified courses. Check with other transfer institutions for best elective selection. Students can meet these extra requirements by careful selection of the elective university course equivalent to:
- WSU all campuses - Management Information Systems MIS 250
- Gonzaga - Management Information Systems BMIS 235
- PLU - Computerized Information Systems CSCE 120, either an equivalent course, or skills test
- WWU - Introduction to Business Computer Systems MIS 220

Students should contact their potential transfer institution(s) for advice on which general elective course to take.

Community Health Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

BAS degrees require a minimum of 60 credits of 300- and 400-level courses

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - 20 credits				
ENGL& 101	English Composition I [C]	5		
Select 15 credits from the following:				
ENGL 315	Writing for Health Professionals [C]	5		
ENGL 410	Professional & Organizational Communication [C]	5		
CMST 320	Health Communication	5		
CMST 415	Applied Professional Communication	5		
Quantitative/Symbolic Reasoning - 5 credits				
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
Humanities - 15 credits				
ICS 310	American Diversity [H]	5		
ICS 320	Culture and Health [H]	5		
HIST&	Any History (HIST&) course. Recommendation: HIST& 128 World Civilization III	5		
Social & Behavioral Sciences - 10 credits				
SOC 334	Sociology of Health and Illness	5		
Select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
Mathematical & Natural Science - select a minimum of 15 credits from the following:				
ANTH& 205	Biological Anthropology [M/S]	5		
ANTH 214	Biological Anthropology Lab [M/S]	1		
BIOL& 160	General Biology W/ Lab [M/S]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 122	Intro to Organic Chemistry W/ Lab [M/S]	5		
CHEM& 123	Intro to Biochemistry W/ Lab [M/S]	5		
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	6		
NUTR& 101	Nutrition [M/S]	5		
	Subtotal	**65**		

Degree & Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 301	Foundations of Public Health	5		
HSCI 302	Epidemiology	5		
HSCI 303	Healthcare Leadership	5		
HSCI 304	Health Policy	5		
HSCI 401	Behavioral & Cultural Issues in Public Health	5		
HSCI 402	Public Health Education	5		
HSCI 403	Health Systems & Healthcare Delivery	5		
HSCI 409	Community Health Capstone	5		
Select 5 credits from the following:				
PHIL 305	Professional Ethics [H]	5		
PHIL 315	Professional Ethics In Healthcare [H]	5		
	Subtotal	**45**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
1. A total of 70 credits from an associate degree related to Health Science, Fire Science, or Social Science *or* **2. A total of 70 credits from the following courses.**				
ASL& 121	American Sign Language I	5		
AMGT 302	Leadership & Tactical Management	5		
ANTH& 100	Survey of Anthropology [S/B]	5		
ANTH& 206	Cultural Anthropology [S/B]	5		
ANTH& 234	Religion & Culture [S/B]	5		
BIOL& 100	Survey of Biology W/ Lab [M/S]	5		
BIOL& 175	Human Biology W/ Lab [M/S]	5		
BIOL& 211	Majors Cellular W/ Lab [M/S]	5		
BUS& 101	Introduction to Business [S/B]	5		
BUS 250	Management Information Systems	5		
BUS 262	Management Principles [RE]	5		
BUS 271	Human Relations in Business [RE]	5		
CHEM& 123	Intro to Biochemistry W/ Lab [M/S]	5		
CHEM& 162	General Chemistry II W/ Lab [M/S]	6		
CHEM& 163	General Chemistry III W/ Lab [M/S]	6		
CMST& 101	Introduction to Communication Studies [C]	5		
CMST 103	Workplace Communication [RE]	3		
CMST 110	Communication Behavior [C]	3		
CMST 201	Studies In Media & Culture: Rotating Genre Study [RE]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST 240	Leadership Development [RE]	5		
CMST 260	Multicultural Communication [C]	5		
CS 101	Intro to Computers & Information Technology	5		
CS 106	Database Systems	5		
CS 117	Computer Ethics	2		
CJ& 101	Introduction to Criminal Justice [S/B]	5		
CJ 104	Introduction to Policing [RE]	5		
CJ& 105	Introduction to Corrections [RE]	5		
CJ& 106	Juvenile Justice [RE]	5		
CJ& 110	Criminal Law [RE]	5		
CJ 137	Constitutional Law [RE]	5		
CJ 222	Alcohol/Drug Pharmacology/Physiology [RE]	5		
DAST 101	Introduction to Dental Assisting [RE]	3		
DAST 102	Dental Sciences I [RE]	3		
DAST 103	Head, Neck, & Dental Anatomy [RE]	4		
DAST 104	Introduction to Dental Radiology [RE]	3		
DAST 105	Dental Sciences II [RE]	5		
DAST 106	Infection Control [RE]	3		
DAST 111	Introduction to Dental Assisting Lab [RE]	3		
DAST 112	Dental Sciences I Lab [RE]	3		
DAST 114	Introduction to Dental Radiology Lab [RE]	2		
DAST 115	Dental Sciences II Lab [RE]	3		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
DAST 201	Dental Sciences III [RE]	4		
DAST 202	Dental Sciences IV [RE]	4		
DAST 203	Office Management [RE]	2		
DAST 204	Dental Assisting Law & Ethics [RE]	3		
DAST 211	Dental Sciences III Lab [RE]	3		
DAST 212	Dental Sciences IV Lab [RE]	2		
DAST 225	Dental Assistant Clinical Experience [RE]	10		
ECED& 100	Child Care Basics [RE]	3		
ECED& 105	Intro to Early Childhood Education [RE]	5		
ECED& 107	Health/Safety/Nutrition [RE]	5		
ECED 112	Introduction to ELL Teaching Strategies [RE]	3		
ECED& 138	Home Visitor/Family Engagement [RE]	3		
ECED& 170	Environments for Young Children [RE]	3		
ECED 201	Multicultural Education [RE]	3		
ECON 110	Economic Trends, Issues and Policy [S/B]	5		
ECON 116	Economic Development of the United States	5		
ECON 305	Managerial Economics [S/B]	5		
EDUC 101	Introduction to Education	4		
EDUC& 115	Child Development [S/B]	5		
EDUC& 130	Guiding Behavior [RE]	3		
EDUC& 150	Child/Family/Community [RE]	3		
EFDA 100	Intro to Expanded Functions Dental Auxiliary [RE]	2		
EFDA 101	Restorative Dentistry [RE]	3		
EFDA 102	Amalgam Restorations [RE]	2		
EFDA 104	Composite Restorations [RE]	2		
EFDA 105	Dental Impressions [RE]	2		
EFDA 112	Amalgam Restorations Lab [RE]	3		
EFDA 114	Composite Restorations Lab [RE]	3		
EFDA 115	Dental Impressions Lab [RE]	2		
EFDA 123	EFDA Clinical Practice I [RE]	3		
EFDA 126	EFDA Clinical Practice II [RE]	4		
EMT 101	Emergency Medical Technician-Basic [RE]	12		
ENGL& 102	Composition II [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
ENGL 160	Women's Literature [H]	5		
ENGL 180	Multicultural Literature [H]	5		
ENGL& 235	Technical Writing [C]	5		
ENGL& 254	World Literature I [H]	5		
ENGL& 255	World Literature II [H]	5		
ENGL& 256	World Literature III [H]	5		
ENGL 280	Lesbian, Gay, Bisexual, Trans, Queer Studies [H]	5		
EXSC 201	Anatomical Kinesiology [RE]	5		
HSCI 101	Introduction to Healthcare [RE]	5		
HSCI 102	Medical Office Specialist I [RE]	5		
HSCI 103	Medical Office Specialist II [RE]	4		
HSCI 122	Medical Office Specialist Clinical [RE]	5		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 201	Foundations of Addiction & Substance Use Disorders [RE]	5		
HSCI 202	Treatment Methods and Counseling Techniques [RE]	5		
HSCI 203	Cultural Competence in Substance Use Disorder Counseling [RE]	5		
HSCI 204	Clinical Skills for Substance Use Disorders [RE]	5		
HSCI 205	Professional Ethics and Law in Substance Use Disorder Counseling [RE]	5		
HSCI 206	Psychopathology and Relapse Prevention [RE]	5		
HSCI 207	Case Management and Community Education [RE]	5		
HSCI 147	Medical Terminology [RE]	5		
HCAD 401	Legal Issues and Ethics in Healthcare Administration	5		
HCAD 401 is cross-listed with AMGT 401. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 402	Healthcare Information & Data Analytics	5		
HCAD 402 is cross-listed with AMGT 402, AG 402, and NRS 315. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 404	Healthcare Operations Management & Evaluation	5		
HCAD 404 is cross-listed with AG 404 and AMGT 404. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HIST 107	Chicano History [S/B]	5		
HIST 108	History of Immigration In The U.S. [S/B]	5		
HIST 110	History of Modern East Asia [S/B]	5		
HIST 111	Colonial Latin America [S/B]	5		
HIST 112	Modern Latin America [S/B]	5		
HIST 113	Mexico Since Independence [S/B]	5		
HIST 115	Intro to Middle East History & Society [S/B]	5		
HIST 115 is cross-listed with SOC 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HIST& 126	World Civilizations I [H]	5		
HIST& 127	World Civilizations II [H]	5		
HIST& 128	World Civilizations III [H]	5		
HIST& 146	U.S. History I [S/B]	5		
HIST& 147	U.S. History II [S/B]	5		
HIST& 148	U.S. History III [S/B]	5		
HIST 212	American Military History from the Colonial Period to the Present [S/B]	5		
HIST& 214	Pacific Northwest History	5		
ICS 120	Survey of Hispanic Culture [H]	5		
ICS 125	Native American Culture [H]	5		
ICS 130	Survey of Asian American Culture [H]	5		
ICS 135	Survey of African American Cultures [H]	5		
ICS 220	Globalization [S/B]	5		
ICS 220 is cross-listed with SOC 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 222	Columbia Basin Cultures [H]	5		
ICS 255	Race and Ethnic Relations [S/B]	5		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
IMAGE 225	Mammography [RE]	4		
IMAGE 229	Mammography Clinical [RE]	4		
IMAGE 250	Cross Sectional Anatomy [RE]	3		
IMAGE 251	Advanced Sectional Anatomy [RE]	2		
IMAGE 265	Body Pathophysiology [RE]	3		
IMAGE 266	Neuropathophysiology [RE]	3		
IMAGE 270	CT Clinical Practicum I [RE]	3-12		
IMAGE 271	MRI Clinical Practicum [RE]	3-12		
IMAGE 280	CT Instrumentation [RE]	3		
IMAGE 281	MRI Instrumentation and Procedures [RE]	3		
INTP 101	Introduction to the Interpreting Profession [RE]	5		
INTP 102	Medical Terminology for Interpreters I [RE]	5		
INTP 103	Consecutive Interpreting I [RE]	5		
INTP 104	Medical Terminology for Interpreters II [RE]	5		
INTP 201	Modes of Interpreting [RE]	5		
INTP 202	Consecutive Interpreting II [RE]	5		
MA 111	Pharmacology I [RE]	5		
MA 114	Human Body Structure, Function, and Diseases I [RE]	4		
MA 115	Clinical Procedures Theory I [RE]	4		
MA 116	Clinical Procedures Lab I [RE]	4		
MA 140	Admin. Medical Assistant Office Procedures I [RE]	5		
MA 141	Career Development for Medical Assistants [RE]	2		
MA 211	Pharmacology II [RE]	5		
MA 214	Human Body Structure, Function, and Diseases II [RE]	4		
MA 215	Clinical Procedures Theory II [RE]	4		
MA 216	Clinical Procedures Lab II [RE]	4		
MA 240	Admin. Medical Assistant Office Procedures II [RE]	6		
MA 241	Externship Seminar [RE]	2		
MA 242	Externship [RE]	6		
NA 100	Nursing Assistant [RE]	4		
NA 102	Nursing Assistant Lab [RE]	4		
NUTR& 101	Nutrition [M/S]	5		
OSH 101	Fundamentals of Occupational Safety & Health [RE]	5		
OSH 124	Industrial and Construction Safety Regulations [RE]	5		
OSH 147	Ethics, Documentation, and Records [RE]	5		
OSH 151	Accident Prevention, Inspection & Investigations [RE]	5		
OSH 153	Risk Management [RE]	5		
OSH 177	Industrial Chemical Safety & Hazards [RE]	5		
OSH 230	Industrial Toxicology [RE]	5		
OSH 231	Biological Hazards [RE]	5		
OSH 233	Fire Protection Systems [RE]	5		
OSH 235	Physical Hazards [RE]	5		
OSH 271	Fundamentals of Industrial Hygiene [RE]	4		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
OSH 272	Ergonomics [RE]	5		
OSH 274	Safety Program Management [RE]	5		
OSH 277	Environmental Management [RE]	5		
OSH 280	Industrial Instrumentation and Equipment [RE]	5		
PHLEB 100	Phlebotomy I [RE]	5		
PHLEB 101	Phlebotomy Clinical [RE]	3		
PMD 201	Paramedic I [RE]	6		
PMD 210	Paramedic I Lab [RE]	2		
PMD 202	Paramedic II [RE]	6		
PMD 220	Paramedic II Lab [RE]	3		
PMD 203	Paramedic III [RE]	6		
PMD 230	Paramedic III Lab [RE]	3		
PMD 204	Paramedic IV [RE]	6		
PMD 240	Paramedic IV Lab [RE]	3		
PMD 205	Paramedic V [RE]	6		
PMD 250	Paramedic V Lab [RE]	3		
PMD 206	Paramedic VI [RE]	6		
PMD 260	Paramedic VI Lab [RE]	3		
POLS& 202	United States Government [S/B]	5		
POLS& 204	Comparative Government [S/B]	5		
PROJ 100	Introduction to Project Management [RE]	5		
PROJ 110	Project Planning [RE]	5		
PROJ 231	Project Risk Management [RE]	5		
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
PSYC 270	Health Psychology [PE]	5		
PSYC 103	Applied Psychology	3		
PSYC& 180	Human Sexuality	5		
PSYC 201	Social Psychology [S/B]	5		
PSYC 205	Psychology of Adjustment	5		
PSYC 217	Forensic Psychology	5		
PSYC& 220	Psychological Disorders [S/B]	5		
PSYC 280	Positive Psychology	5		
SOWK 101	Introduction to Social Work	5		
SOWK 103	Social Work Ethics [RE]	5		
SOWK 201	Counseling Theory and Practice [RE]	5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
SOC 110	Gender, Media, & Popular Culture [S/B]	5		
SOC 115	Intro to Middle East History & Society [S/B]	5		
SOC 115 is cross-listed with HIST 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 150	Marriage, Family, and Relationships [S/B]	5		
SOC 160	Gender Studies [S/B]	5		
SOC 220	Globalization [S/B]	5		
SOC 220 is cross-listed with ICS 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 221	Sociology of Deviance and Crime [S/B]	5		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
SOC 230	Human Sexuality	3		
SOC 269	Sociology of World Cinema [S/B]	5		
SPAN 110	Beginning Spanish for Professionals [H]	5		
SPAN 112	Advanced Spanish for Professionals [H]	5		
SPAN& 121	Spanish I [H]	5		
SPAN& 122	Spanish II [H]	5		
SPAN& 123	Spanish III [H]	5		
SPAN 205	Spanish for Spanish Speakers [H]	5		
SPAN 206	Spanish for Spanish Speakers [H]	5		
SPAN 207	Spanish for Spanish Speakers [H]	5		
SPAN& 221	Spanish IV [H]	5		
SPAN& 222	Spanish V [H]	5		
SPAN& 223	Spanish VI [H]	5		
SPT 100	Foundations of Sterile Processing [RE]	6		
SPT 150	Sterile Processing Clinical [RE]	12		
WS 155	Women's Cultural Heritage [H]	5		
	Subtotal	**70**		
	Total Credits Required	**180**		

Course or degree credits used for major support should be discussed with your completion coach or academic advisor.
Students must earn a minimum 2.0 grade in all Community Health (HSCI) courses.
Required minimum cumulative GPA 2.0.
A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or faculty advisor.

Computed Tomography (CT) Technology Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
IMAGE 250	Cross Sectional Anatomy [RE]	3		
IMAGE 270	CT Clinical Practicum I [RE]	12		
IMAGE 280	CT Instrumentation [RE]	3		
	Total Credits Required	**18**		

Computer Aided Drafting One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENT 111	Introduction to Engineering [RE]	5		
ENT 124	Intermediate Drafting [RE]	4		
ENT 128	Architecture & Engineering Blueprint Reading [RE]	2		
ENT 136	Advanced Drafting [RE]	4		
ENT 122	Materials [RE]	3		
ENT 114	Introduction to Drafting [RE]	4		
	Subtotal	**22**		

Major Support

Select a minimum of 8 credits from the following

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENT 121	Engineering Fundamentals W/ Lab [RE]	4		
ENT 134	Surveying W/ Lab [RE]	6		
ENT 135	Statics [RE]	5		
ENT 219	Construction Estimating [RE]	1		
ENT 229	Construction Specifications [RE]	2		
	Subtotal	**8**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Mathematics - select 5 credits from the following:				
MATH 113	Geometry/Trigonometry [M/S]	5		
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
Social & Behavioral Sciences - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
	Subtotal	**15**		
	Total Credits Required	**45**		

Computer Applications Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CA 145	Intermediate Microsoft Word Processing [RE]	2		
CA 155	Intermediate Microsoft Excel [RE]	2		
CA 165	Intermediate Microsoft PowerPoint [RE]	2		
CA 170	Introduction to Microsoft Outlook [RE]	1		
CS 101	Intro to Computers & Information Technology	5		
or select 6 credits from the following four courses:				
CA 120	Introduction to Computer Applications [RE]	3		
and				
CA 140	Introduction to Microsoft Word [RE]	1		
and				
CA 150	Introduction to Microsoft Excel [RE]	1		
and				
CA 160	Introduction to Microsoft PowerPoint [RE]	1		
	Subtotal	**12-13**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CA 101	Introduction to Keyboarding [RE]	2		
	Subtotal	**0-2**		
	Total Credits Required	**12-15**		

Degree & Certificate Requirements

Computer Science Associate in Arts & Sciences (AA/DTA/MRP)

Direct Transfer Agreement/Major Related Program

2026-2027 Degree Requirements

Some colleges/universities have requirements for admissions to the Computer Science major that go beyond those specified below. Students can possibly meet these requirements by careful selection of distribution and additional elective courses. Students should work with a completion coach or advisor and the catalog of the four-year institution to which they plan to transfer for further guidance specific to their goals. Early in the program, students should check with their intended transfer university/college advisor for specific admissions and Computer Science program requirements for course choices where options are listed for Humanities, Mathematical & Natural Science, Social & Behavioral Science and electives. A cumulative college-level GPA of 2.0 is required. Some transfer institutions require a higher overall GPA, a higher GPA in a subset of courses, or a specific minimum grade in one or more courses. Check with your planned transfer institution for these requirements.

Communication *1

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Select 5 credits from the following:				
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
	Subtotal	**10**		

Quantitative/Symbolic Reasoning

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 151	Calculus I [M/S] [Q/SR]	5		
	Subtotal	**5**		

Humanities *2

Select from at least two different subject areas, with no more than 10 credits per subject area; only 5 credits of world language (Group C on the AA/DTA list) will apply. Courses must be selected from the distribution list for the AA/DTA degree.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		5		
	Subtotal	**15**		

Social & Behavioral Sciences *3

No more than 10 credits per subject area. Course selections must meet the distribution requirements for the AA degree.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		5		
	Subtotal	**15**		

Degree & Certificate Requirements

Mathematical & Natural Science *4

At least 10 credits must be from a lab science intended for science and engineering majors. The additional 5 credits can include Calculus 2 or a third lab science course. Please consult with your completion coach.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BIOL& 211	Majors Cellular W/ Lab [M/S]	5		
BIOL& 212	Majors Plant W/ Lab [M/S]	5		
BIOL& 213	Majors Animal W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	5-6		
CHEM& 162	General Chemistry II W/ Lab [M/S]	5-6		
CHEM& 163	General Chemistry III W/ Lab [M/S]	5-6		
PHYS& 221	Engineering Physics I W/ Lab [M/S]	5		
PHYS& 222	Engineering Physics II W/ Lab [M/S]	5		
PHYS& 223	Engineering Physics III W/ Lab [M/S]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
	Subtotal	**15-18**		

Major Requirements *5

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Computer Programming I - select 5 credits from the following:				
CS& 131	Computer Science I C++ [M/S]	5		
CS& 141	Computer Science I Java [M/S]	5		
Computer Programming II - select 5 credits from the following:				
CS 162	C++2 [RE]	5		
CS 236	Advanced Object Oriented Programming [RE]	5		
	Subtotal	**10**		

Electives *6

Course selections must meet the distribution requirements for the AA degree.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BIOL& 211	Majors Cellular W/ Lab [M/S]	5		
BIOL& 212	Majors Plant W/ Lab [M/S]	5		
BIOL& 213	Majors Animal W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	5-6		
CHEM& 162	General Chemistry II W/ Lab [M/S]	5-6		
CHEM& 163	General Chemistry III W/ Lab [M/S]	5-6		
CS 260	Data Structures In C++ [RE]	5		
ENGL& 235	Technical Writing [C]	5		
FYI 101	First Year Introduction [RE]	1		
HDEV 101	Creating Academic Success [RE]	4		
HDEV 102	College Connections [RE]	3		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
MATH& 254	Calculus IV [M/S] [Q/SR]	5		
MATH 243	Linear Algebra [M/S] [Q/SR]	5		
MATH 246	Discrete Structures [M/S] [Q/SR]	5		
MATH 255	Differential Equations [M/S] [Q/SR]	5		
PHYS& 221	Engineering Physics I W/ Lab [M/S]	5		
PHYS& 222	Engineering Physics II W/ Lab [M/S]	5		
PHYS& 223	Engineering Physics III W/ Lab [M/S]	5		
	Subtotal	**25-40**		
	Total Credits Required	**95-113**		

Graduation Requirements:

- Required minimum 95 credits.
- Required minimum cumulative college-level GPA of 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your counselor, completion coach or faculty advisor.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.
- Maximum three credits of PE may be applied.
- Refer to Catalog Option Policy for information about using previous degree requirements.
- For individual college requirements, see Provisions on our Transfer Opportunities webpage.

*1

- Whitworth & Gonzaga- Oral Communication in place of English Composition II or Technical Writing – 5 credits
- WSU – Strongly recommend Technical Writing instead of Composition II to meet degree requirements at transfer – 5 credits

*2

- Gonzaga - Philosophy (Intro or Ethics), Literature, and Humanities (Art, Music, Theatre, etc.) – 15 credits

*3

- All UW Campuses - Require completion of a diversity course(s) that explores how social systems create different life outcomes for different people, how to recognize and work with the differences, and how to improve on the systems. For courses that meet this institutional requirement, please speak with an advisor from the campus you wish to attend.
- Gonzaga - History (World or Western Civ, US History); and Psyc, Soc, Crim, or Anthro 101

*4

- 10 quarter credits from any lab science intended for science and engineering majors
- Gonzaga – One -year 'major-level' BIOL, CHEM or Calc-Based PHYS and labs; Calculus 2/3
- WSU-Vancouver – One year of Calc-Based PHYS and labs or science courses selected from a list of options--talk with a CS advisor to ensure transfer
- 5 quarter credits Calculus 2 or a third science w/lab planned with an advisor

*5 Major Requirements vary based on your transfer institution. Contact your potential transfer institution(s) for best course selection.

- 5 quarter credits Computer Programming I
- 5 quarter credits Computer Programming II

*6 Elective requirements vary based on your transfer institution. Contact your potential transfer institution(s) for best course selection.

- The remaining elective courses are common, suggested transfer preparation for all participating bachelor's degree granting institutions. The degree becomes tailored for preparation to a transfer institution through appropriate selection of elective courses. An elective course that is appropriate for one baccalaureate institution may not be the appropriate choice for another baccalaureate institution. It is critical that students be in communication with advisors at their community or technical college and the intended transfer baccalaureate institution(s). Remaining elective credits should be planned with the help of an advisor based on the requirements of the intended transfer baccalaureate institution(s). The participating institutions to this agreement are committed to reaching out and welcoming students to ask questions and connect with advisors to ensure successful transfer and degree completion.
- Advanced Data Structures, Calculus 3, Calculus 4, Computer Architecture, Data Science - Intro, Data Structures, Differential Equations, Digital Logic, Discrete Math, Discrete Structures, Lab Science intended for science and engineering majors, Linear Algebra, Programming Tools, Statistics Calculus based, Technical Writing

Computer Science Bachelor of Science (BS)

2026-2027 Degree Requirements

BS degrees require a minimum of 60 credits of 300- and 400-level courses

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 101	Intro to Computers & Information Technology	5		
CS 102	Programming Fundamentals [M/S]	5		
or				
CS& 131	Computer Science I C++ [M/S]	5		
CS 106	Database Systems	5		
CS 117	Computer Ethics	2		
CS 135	Cloud Fundamentals [RE]	5		
CS& 141	Computer Science I Java [M/S]	5		
CS 150	Computer Security [RE]	5		
CS 162	C++2 [RE]	5		
or				
CS 202	Programming Fundamentals 2 [RE]	5		
CS 206	Database Design [RE]	5		
CS 223	Unix/Linux [RE]	5		
CS 225	SQL Programming [RE]	5		
CS 236	Advanced Object Oriented Programming [RE]	5		
CS 250	HTML5-JavaScript/JQuery	5		
CS 302	Principles of Computer Architecture and Computer Systems	5		
CS 316	Cloud Computing HTML5 and PHP	5		
CS 321	Python for Data Processing	5		
CS 330	Principles of Computation and Algorithm Analysis	5		
CS 401	Software Analysis and Design	5		
CS 411	Agile Methodology & ePortfolio Planning	5		
CS 417	Contemporary Topics in Computer Science	5		
CS 421	Software Development Capstone	5		
CSIA 430	Unix Administration and Security	5		
CS 440	Operating System Design & Internals	5		
Select 3-6 credits from the following:				
CS 118	Customer Service [RE]	3		
CS 217	Internship [RE]	1–3		
Electives - Select 5 credits from any 100-200 level CS or CSIA courses				
		5		
Electives - Select 5 credits from any 300-400 level CS courses				
		5		
	Subtotal	**125-128**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management [RE]	5		
	Subtotal	**5**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English & Communications - 10 credits:				
ENGL& 101	English Composition I [C]	5		
ENGL& 235	Technical Writing [C]	5		
or				
Any 5 credit English (ENGL) or Communications (CMST) course		5		
CMST 415	Applied Professional Communication	5		
Quantitative/Symbolic Reasoning - 10 credits:				
MATH 246	Discrete Structures [M/S] [Q/SR]	5		
PHIL& 120	Symbolic Logic [Q/SR]	5		
Quantitative/Symbolic Reasoning - select 5 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Humanities - select 5 credits from the following:				
ICS 310	American Diversity [H]	5		
PHIL 305	Professional Ethics [H]	5		
Mathematical & Natural Science* - select 5 credits from the following:				
Choose any lab science from the Mathematical and Natural Science Distribution.		5		
Additional Courses* - select 15 credits from the following:				
PSYC& 100 or any PSYC course higher than 100		5		
or				
SOC& 101	Intro to Sociology [S/B]	5		
SOC 305	Cybercrime: A Sociological Perspective [S/B]	5		
AMGT 300	Cross-Cultural Logistics and Global Management	5		
or				
AMGT 320				
	Subtotal	**50**		
	Total Credits Required	**180-183**		

Note:

* Course selections must meet the distribution requirements for the AA/DTA degree.

Students must earn a minimum 2.0 grade in all 300-400 level CS and CSIA courses.
Students must earn a minimum 2.0 or Pass (P) grade in all 100-200 level CS courses.
Required minimum 180 credits.
Required minimum cumulative GPA 2.0.
A combination of CA 120, CA 140, CA 150, and CA 160 can be substituted as equivalent for CS 101 for a total of 5 credits counted toward the degree.
Classes/credits used for substitution cannot be used to fulfill other requirements.
A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.

Computer and Information Technology Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 101	Intro to Computers & Information Technology	5		
CS 102	Programming Fundamentals [M/S]	5		
or				
CS& 131	Computer Science I C++ [M/S]	5		
CS 106	Database Systems	5		
CS 117	Computer Ethics	2		
CS 118	Customer Service [RE]	3		
CS 150	Computer Security [RE]	5		
CS 228	Windows Server [RE]	5		
	Total Credits Required	**30**		

Note:

Combination of CA 120, CA 140, CA 150 and CA 160 can be substituted as equivalent for CS 101 for a total of 5 credits counted towards the degree. Classes/ credits used for substitution cannot be used to fulfill other requirements.

Students must receive a minimum grade of 2.5 or pass (P) in all Computer Science courses.

Computer and Information Technology One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 101	Intro to Computers & Information Technology	5		
CS 102	Programming Fundamentals [M/S]	5		
or				
CS& 131	Computer Science I C++ [M/S]	5		
CS 106	Database Systems	5		
CS 117	Computer Ethics	2		
CS 118	Customer Service [RE]	3		
CS 150	Computer Security [RE]	5		
CS 228	Windows Server [RE]	5		
	Subtotal	**30**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Mathematics - select 5 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Psychology or Sociology - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
Any PSYC course higher than 100		5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
Communication - select 5 to 6 credits from the following:				
CMST 104	Speech Essentials [C]	3		
CMST 110	Communication Behavior [C]	3		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**20-21**		
	Total Credits Required	**50-51**		

Note:

Combination of CA 120, CA 140, CA 150 and CA 160 can be substituted as equivalent for CS 101 for a total of 5 credits counted towards the degree. Classes/ credits used for substitution cannot be used to fulfill other requirements.

Students must receive a minimum grade of 2.5 or pass (P) in all Computer Science courses.

Criminal Justice Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CJ& 101	Introduction to Criminal Justice [S/B]	5		
CJ& 110	Criminal Law [RE]	5		
CJ& 106	Juvenile Justice [RE]	5		
CJ 234	Criminal Evidence [RE]	5		
CJ& 240	Intro to Forensic Science	5		
CJ 104	Introduction to Policing [RE]	5		
CJ& 105	Introduction to Corrections [RE]	5		
CJ 134	Organization/Administration [RE]	5		
	Subtotal	**40**		

Major Support

Select 2 courses from the following

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CJ 135	Traffic Control [RE]	5		
CJ 137	Constitutional Law [RE]	5		
CJ 222	Alcohol/Drug Pharmacology/Physiology [RE]	5		
CJ 232	Criminal Investigation [RE]	5		
	Subtotal	**10**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
*MATH 106+	MATH 106 or above	5		
CA/CS 100+	Computer Science course(s)	4-5		
ENGL& 101	English Composition I [C]	5		
English - select 5 additional credits from the following:				
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication - select 3 to 5 credits from the following:				
CMST 104	Speech Essentials [C]	3		
CMST 110	Communication Behavior [C]	3		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
Science - select 10 credits:				
		5		
		5		
Humanities - select 15 credits:				
		5		
		5		
		5		
Social Science - select 15 credits:				
		5		
		5		
		5		
	Subtotal	**62-65**		
	Total Credits Required	**112-115**		

*Check with your program advisor for recommended elective courses from Mathematical & Natural Sciences, Humanities and Social & Behavioral Science distributions.

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or faculty advisor.

Crop and Soil Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AG 101	Crop Production I Field Crops W/ Lab [RE]	4		
AG 107	Agriculture Safety [RE]	3		
AG 117	Agriculture Mechanics and Machinery W/ Lab [RE]	4		
AG 140	Weed Science W/ Lab [RE]	4		
AG 181	Irrigation Principles and Management W/ Lab [RE]	4		
BIOL 252	Insects of Economic Importance W/ Lab [M/S]	5		
BIOL 201	Soils W/ Lab [M/S]	5		
BIOL 201 is cross-listed with AG 201. A student may not use equivalent cross-listed courses for the same graduation requirement.				

Total Credits Required 29

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

Degree & Certificate Requirements

Cyber Security Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 101	Intro to Computers & Information Technology	5		
CS 102	Programming Fundamentals [M/S]	5		
or				
CS& 131	Computer Science I C++ [M/S]	5		
CS 106	Database Systems	5		
CS 117	Computer Ethics	2		
CS 150	Computer Security [RE]	5		
CS 228	Windows Server [RE]	5		
Select 3 to 6 credits from the following:				
CS 118	Customer Service [RE]	3		
CS 217	Internship	1-3		
	Subtotal	**30-33**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 135	Cloud Fundamentals [RE]	5		
CS 162	C++2 [RE]	5		
or				
CS 202	Programming Fundamentals 2 [RE]	5		
CS 206	Database Design [RE]	5		
CS 221	SQL Server Administration [RE]	5		
CS 223	Unix/Linux [RE]	5		
CS 231	Network Infrastructure [RE]	5		
CS 232	Network Security [RE]	5		
CSIA 200	Computer Forensics Fundamentals [RE]	5		
	Subtotal	**40**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Mathematics - select 5 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Psychology or Sociology - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
Any PSYC course higher than 100		5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
Communication - select 5 to 6 credits from the following:				
CMST 104	Speech Essentials [C]	3		
CMST 110	Communication Behavior [C]	3		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**20-21**		
	Total Credits Required	**90-94**		

Note:

Combination of CA 120, CA 140, CA 150 and CA 160 can be substituted as equivalent for CS 101 for a total of 5 credits counted towards the degree. Classes/ credits used for substitution cannot be used to fulfill other requirements.

Students must receive a minimum grade of 2.5 or pass (P) in all CS and CSIA courses.

Cyber Security Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

BAS degrees require a minimum of 60 credits of 300- and 400-level courses

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 101	Intro to Computers & Information Technology	5		
CS 102	Programming Fundamentals [M/S]	5		
or				
CS& 131	Computer Science I C++ [M/S]	5		
CS 106	Database Systems	5		
CS 117	Computer Ethics	2		
CS 135	Cloud Fundamentals [RE]	5		
CS 150	Computer Security [RE]	5		
CS 162	C++2 [RE]	5		
or				
CS 202	Programming Fundamentals 2 [RE]	5		
CS 206	Database Design [RE]	5		
CS 221	SQL Server Administration [RE]	5		
CS 223	Unix/Linux [RE]	5		
CS 228	Windows Server [RE]	5		
CS 231	Network Infrastructure [RE]	5		
CS 232	Network Security [RE]	5		
CSIA 200	Computer Forensics Fundamentals [RE]	5		
CSIA 300	Cyber Security and Information Assurance	5		
CSIA 310	E-Commerce Security	5		
CSIA 320	Ethical Hacking	5		
CSIA 330	Wireless Security	5		
CSIA 410	Cryptology	5		
CSIA 420	Cyber Crime and Terrorism	5		
CSIA 430	Unix Administration and Security	5		
CSIA 440	Cyber Testing and Penetration	5		
CSIA 450	Cyber Security Capstone	5		
Select 3 to 6 credits from the following:				
CS 118	Customer Service [RE]	3		
CS 217	Internship [RE]	3		
	Subtotal	**115 - 118**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management [RE]	5		
	Subtotal	**5**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - 15 credits:				
ENGL& 101	English Composition I [C]	5		
ENGL 410	Professional & Organizational Communication [C]	5		
CMST 415	Applied Professional Communication	5		
Quantitative/Symbolic Reasoning - select 5 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Social & Behavioral Sciences - 10 credits:				
SOC 305	Cybercrime: A Sociological Perspective [S/B]	5		
ECON 305	Managerial Economics [S/B]	5		
Humanities - 10 credits:				
PHIL 305	Professional Ethics [H]	5		
ICS 310	American Diversity [H]	5		
Mathematical & Natural Science - select 10 credits from the following:				
Choose a lab science from this distribution list		5		
Choose any course from this distribution list		5		
Electives – select 10 credits from the following distribution areas. Check with your program advisor for recommended elective courses from Communication, Quantitative/Symbolic Reasoning, Social & Behavioral Sciences, Humanities, and Mathematical & Natural Science distributions.				
		5		
		5		
	Subtotal	**60**		
	Total Credits Required	**180-183**		

Note:

- Combination of CA 120, CA 140, CA 150 and CA 160 can be substituted as equivalent for CS 101 for a total of 5 credits counted towards the degree. Classes/credits used for substitution cannot be used to fulfill other requirements.
- Students must earn a minimum 2.0 grade in all CSIA courses.
- Students must earn a minimum 2.5 or pass (P) grade in all CS courses.
- Required minimum cumulative GPA 2.0.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.

Degree & Certificate Requirements

Dental Assisting Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
DAST 101	Introduction to Dental Assisting [RE]	3		
DAST 111	Introduction to Dental Assisting Lab [RE]	3		
DAST 102	Dental Sciences I [RE]	3		
DAST 112	Dental Sciences I Lab [RE]	3		
DAST 103	Head, Neck, & Dental Anatomy [RE]	4		
DAST 104	Introduction to Dental Radiology [RE]	3		
DAST 114	Introduction to Dental Radiology Lab [RE]	2		
DAST 105	Dental Sciences II [RE]	5		
DAST 115	Dental Sciences II Lab [RE]	3		
DAST 106	Infection Control [RE]	3		
DAST 201	Dental Sciences III [RE]	4		
DAST 211	Dental Sciences III Lab [RE]	3		
DAST 202	Dental Sciences IV [RE]	4		
DAST 212	Dental Sciences IV Lab [RE]	2		
DAST 203	Office Management [RE]	2		
DAST 204	Dental Assisting Law & Ethics [RE]	3		
DAST 225	Dental Assistant Clinical Experience [RE]	10		
	Subtotal	**60**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology [RE]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
	Subtotal	**20-23**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
PSYC& 100	General Psychology [S/B]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**20**		
	Total Credits Required	**100-103**		

Degree & Certificate Requirements

Dental Assisting One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
DAST 101	Introduction to Dental Assisting [RE]	3		
DAST 111	Introduction to Dental Assisting Lab [RE]	3		
DAST 102	Dental Sciences I [RE]	3		
DAST 112	Dental Sciences I Lab [RE]	3		
DAST 103	Head, Neck, & Dental Anatomy [RE]	4		
DAST 104	Introduction to Dental Radiology [RE]	3		
DAST 114	Introduction to Dental Radiology Lab [RE]	2		
DAST 105	Dental Sciences II [RE]	5		
DAST 115	Dental Sciences II Lab [RE]	3		
DAST 106	Infection Control [RE]	3		
DAST 201	Dental Sciences III [RE]	4		
DAST 211	Dental Sciences III Lab [RE]	3		
DAST 202	Dental Sciences IV [RE]	4		
DAST 212	Dental Sciences IV Lab [RE]	2		
DAST 203	Office Management [RE]	2		
DAST 204	Dental Assisting Law & Ethics [RE]	3		
DAST 225	Dental Assistant Clinical Experience [RE]	10		
	Subtotal	**60**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology [RE]	5		
	Subtotal	**5**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PSYC& 100	General Psychology [S/B]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**15**		
	Total Credits Required	**80**		

Degree & Certificate Requirements

Dental Hygiene (Completion Degree) Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

BAS degrees require a minimum of 60 credits of 300- and 400-level courses

For students with CBC's AAS in Dental Hygiene degree only

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
DHYG 409	Community Oral Health Research II	2		
DHYG 415	Community Oral Health Practicum	1		
DHYG 416	Educational Theory and Methodology	2		
DHYG 418	Community Oral Health - Research III	1		
NRS 315	Healthcare Informatics/Information Technology	5		
NRS 315 is cross-listed with AG 402, AMGT 402, and HCAD 402. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**11**		

Major Support*

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CHEM& 123	Intro to Biochemistry W/ Lab [M/S]	5		
Select 5 to 6 credits from the following:				
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 122	Intro to Organic Chemistry W/ Lab [M/S]	5		
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	6		
	Subtotal	**10-11**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL 315	Writing for Health Professionals [C]	5		
or				
CMST 320	Health Communication	5		
Communication Studies - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
Humanities - 10 credits:				
PHIL 315	Professional Ethics In Healthcare [H]	5		
ICS 310	American Diversity [H]	5		
or				
ICS 320	Culture and Health [H]	5		
Social & Behavioral Sciences - 5 credits:				
PSYC 201	Social Psychology [S/B]	5		
	Subtotal	**25**		

AAS in Dental Hygiene Curriculum

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Previously completed AAS in Dental Hygiene degree coursework		140		
	Subtotal	**140**		
	Total Credits Required	**186-187**		

Note:

Alumni of Columbia Basin's Dental Hygiene AAS program are eligible to receive 300-400 level course equivalents for previous DHYG 100-200 level courses. As a result, AAS Dental Hygiene alumni can meet the BAS degree requirement of a minimum of 60 credits for degree completion when combined with the Dental Hygiene BAS degree completion courses.

*Students who started the AAS program after the 2007-08 academic year previously completed CHEM& 121 as a prerequisite and only need to take 5 credits of CHEM& 123 within this Major Support section. Students who started the AAS program in the 2017-18 academic year previously completed CHEM& 121 and CHEM& 122 as prerequisites and only need to take 5 credits of CHEM& 123 within this Major Support section.

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or faculty advisor.

Dental Hygiene Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

BAS degrees require a minimum of 60 credits of 300- and 400-level courses

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
DHYG 301	Dental Anatomy	1		
DHYG 302	Histology/Embryology	2		
DHYG 303	Oral Radiology I	1		
DHYG 304	Oral Radiology I Lab	1		
DHYG 305	Clinical Dental Hygiene Techniques I	2		
DHYG 306	Clinical Dental Hygiene Techniques I Lab	3		
DHYG 307	Dental Health Education	1		
DHYG 308	Dental Materials	1		
DHYG 309	Dental Materials Lab	1		
DHYG 310	Head and Neck Anatomy	2		
DHYG 311	Medical Emergencies In Dentistry	2		
DHYG 312	General Pathology	2		
DHYG 313	Oral Radiology II	1		
DHYG 314	Oral Radiology II Lab	1		
DHYG 315	Clinical Dental Hygiene Techniques II	2		
DHYG 316	Clinical Dental Hygiene Techniques II Lab	4		
DHYG 318	Restorative Dentistry I	1		
DHYG 319	Restorative Dentistry I Lab	1		
DHYG 320	Pain Control In Dentistry	2		
DHYG 321	Pain Control In Dentistry Lab	2		
DHYG 322	Pharmacology	2		
DHYG 323	Oral Pathology	2		
DHYG 324	Periodontics I	2		
DHYG 325	Clinical Dental Hygiene Techniques III	2		
DHYG 326	Clinical Dental Hygiene Techniques III Lab	4		
DHYG 327	Restorative Dentistry II	1		
DHYG 328	Restorative Dentistry II Lab	2		
DHYG 329	Patient Management	2		
DHYG 330	Clinical Dental Hygiene Techniques IV	1		
DHYG 331	Clinical Dental Hygiene Techniques IV Lab	5		
DHYG 401	Restorative Dentistry III	1		
DHYG 402	Restorative Dentistry III Lab	2		
DHYG 403	Community Oral Health Research I	2		
DHYG 404	Nutrition In Dentistry	1		
DHYG 406	Clinical Dental Hygiene Techniques V	1		
DHYG 407	Clinical Dental Hygiene Techniques V Lab	6		
DHYG 408	Ethics and Jurisprudence, Practice Management	2		
DHYG 409	Community Oral Health Research II	2		
DHYG 410	Periodontics II	2		
DHYG 411	Clinical Dental Hygiene Techniques VI	1		
DHYG 412	Clinical Dental Hygiene Techniques VI Lab	7		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
DHYG 413	Clinical Dental Hygiene Techniques VII	1		
DHYG 414	Clinical Dental Hygiene Techniques VII Lab	9		
DHYG 415	Community Oral Health Practicum	1		
DHYG 416	Educational Theory and Methodology	2		
DHYG 417	Restorative Dentistry IV Lab	1		
DHYG 418	Community Oral Health - Research III	1		
NRS 315	Healthcare Informatics/Information Technology	5		
NRS 315 is cross-listed with AG 402, AMGT 402, and HCAD 402. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**103**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
NUTR& 101	Nutrition [M/S]	5		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
CHEM& 123	Intro to Biochemistry W/ Lab [M/S]	5		
Select 5 to 6 credits from the following:				
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 122	Intro to Organic Chemistry W/ Lab [M/S]	5		
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	6		
	Subtotal	**30-34**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL 315	Writing for Health Professionals [C]	5		
or				
CMST 320	Health Communication	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication - select 10 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
Quantitative/Symbolic Reasoning - 5 credits:				
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
Humanities - 10 credits:				
PHIL 315	Professional Ethics In Healthcare [H]	5		
ICS 310	American Diversity [H]	5		
or				
ICS 320	Culture and Health [H]	5		
Social & Behavioral Sciences - select 15 credits from the following:				
SOC& 101	Intro to Sociology [S/B]	5		
PSYC& 100	General Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
or				
PSYC& 200	Lifespan Psychology [S/B]	5		
	Subtotal	**50**		
	Total Credits Required	**183-187**		

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or faculty advisor.

Degree & Certificate Requirements

Digital Marketing Associate of Applied Science - Transfer (AAS-T)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 265	Marketing Principles [RE]	5		
MRKT 102	Introduction to Digital Marketing [RE]	5		
MRKT 103	Social Media Strategy [RE]	5		
MRKT 104	Search Engine Strategy [RE]	5		
MRKT 150	Advertising [RE]	5		
MRKT 241	Measurement and Analytics [RE]	5		
MRKT 251	Market Research [RE]	5		
MRKT 261	Online Video & TV Strategy [RE]	5		
MRKT 271	Relationship Marketing [RE]	5		
Select 5 credits from the following:				
BUS 190	Leadership Practicum [RE]	5		
CS 245	Webpage Authoring Essentials [RE]	5		
	Subtotal	**50**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 222	Advanced Microsoft Excel [RE]	5		
CS 101	Intro to Computers & Information Technology	5		
	Subtotal	**10**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Select 5 credits from the following:				
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Mathematics* - select 5 credits from the following:				
MATH& 107+	MATH& 107 or higher	5		
Social and Behavioral Sciences - 5 credits:				
BUS& 101	Introduction to Business [S/B]	5		
Select 5 credits from the following:				
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
Natural Science with Lab* - select 5 credits				
		5		
	Subtotal	**30**		
	Total Credits Required	**90**		

* Mathematics and Natural Science w/ Lab courses must be chosen from the distribution list.

EMT-Basic Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EMT 101	Emergency Medical Technician-Basic [RE]	12		
	Total Credits Required	**12**		

Early Childhood Education Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED 103	Art [RE]	3		
ECED& 105	Intro to Early Childhood Education [RE]	5		
ECED& 107	Health/Safety/Nutrition [RE]	5		
EDUC& 115	Child Development [S/B]	5		
ECED& 120	Practicum-Nurturing Relationships [RE]	2		
ECED 122	Math & Science [RE]	3-5		
ECED 124	Children's Literature [RE]	3		
EDUC& 130	Guiding Behavior [RE]	3		
ECED& 132	Infants & Toddlers--Nurturing Care [RE]	3		
EDUC& 150	Child/Family/Community [RE]	3		
ECED 151	Field Experience Seminar [RE]	3		
ECED 152	Field Experience [RE]	1		
ECED& 160	Curriculum Development [RE]	5		
ECED& 170	Environments for Young Children [RE]	3		
ECED& 180	Language & Literacy Development [RE]	3		
ECED& 190	Observation/Assessment [RE]	3		
EDUC& 203	Exceptional Child [RE]	3		
	Subtotal	**56-58**		

Major Support

A total of 15 credits required in the major support area. A maximum of 6 credits of ECED Special Studies Lab will be accepted. Other electives may include ECED, EDUC, Humanities or Social Science courses (with prior approval).

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED& 100	Child Care Basics [RE]	3		
EDUC 101	Introduction to Education	4		
ECED 110	Preschool Seminar [RE]	1–3		
ECED 116	Eced Special Topics Symposium [RE]	1–3		
ECED 117	Eced Seminar [RE]	1–3		
ECED 118	Skills Training [RE]	1–3		
ECED 119	ECED Workshop [RE]	1–3		
ECED 127	Music & Movement [RE]	3		
ECED& 134	Family Child Care Management [RE]	3		
EDUC& 136	School Age Care [RE]	3		
ECED& 138	Home Visitor/Family Engagement [RE]	3		
ECED& 139	Administration of ECE [RE]	3		
ECED 141	Child Development Associate [RE]	10		
or				
ECED 143-149, 153	Child Development Associate	1-10		
ECED 201	Multicultural Education [RE]	3		
ECED 216	Advanced Special Topics [RE]	1–3		
ECED 217	Advanced Seminar [RE]	1–3		
ECED 218	Advanced Skills Training [RE]	1–3		
ECED 219	Advanced Workshop [RE]	1–3		
ECED 221	Strategies for Teaching Special Needs [RE]	3		
ECED 222	Sign Language Level 1 [RE]	3		
ECED 223	Sign Language Level 2 [RE]	3		
ECED 224	Sign Language Level 3 [RE]	3		
ECED 280	Special Studies Lab [RE]	1–3		
ECED 281-288	Special Studies Lab	1-15		
ECED 289	Special Studies [RE]	1–15		
	Subtotal	**15**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Communication - select a minimum of 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
Social Sciences - select 10 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Mathematics - 5 credits:				
MATH 100+	MATH 100 or above	5		
Note: MATH& 171 recommended for BAS path				
	Subtotal	**25**		
	Total Credits Required	**96-98**		

Note:
It is important to stay in close contact with your ECE advisor. More information can be obtained from the Early Childhood Education office at 542-4640.

Engineering Technology Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENT 111	Introduction to Engineering [RE]	5		
ENT 121	Engineering Fundamentals W/ Lab [RE]	4		
ENT 122	Materials [RE]	3		
ENT 124	Intermediate Drafting [RE]	4		
ENT 128	Architecture & Engineering Blueprint Reading [RE]	2		
ENT 134	Surveying W/ Lab [RE]	6		
ENT 135	Statics [RE]	5		
ENT 136	Advanced Drafting [RE]	4		
ENT 214	Strength of Materials [RE]	5		
ENT 216	Mechanical Drafting & Design [RE]	5		
ENT 219	Construction Estimating [RE]	1		
ENT 224	Structures [RE]	5		
ENT 226	Architectural/Structural Drafting [RE]	5		
ENT 229	Construction Specifications [RE]	2		
ENT 236	Design [RE]	5		
ENT 238	Electricity [RE]	5		
ENT 114	Introduction to Drafting [RE]	4		
	Subtotal	**70**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHYS& 114	General Physics I W/ Lab [M/S]	5		
PHYS& 115	General Physics II W/ Lab [M/S]	5		
Physics or English - select 5 credits from the following:				
PHYS& 116	General Physics III W/ Lab [M/S]	5		
ENGL& 235	Technical Writing [C]	5		
	Subtotal	**15**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - 5 credits:				
ENGL& 101	English Composition I [C]	5		
Math - select 10 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH 113	Geometry/Trigonometry [M/S]	5		
or				
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
Social & Behavioral Sciences - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Communication - select 3 to 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST 104	Speech Essentials [C]	3		
CMST 110	Communication Behavior [C]	3		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**23-25**		
	Total Credits Required	**108-110**		

Entrepreneurship and Business Development Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 179	Introduction to Entrepreneurship [RE]	5		
BUS 263	Principles of Finance [RE]	5		
BUS& 101	Introduction to Business [S/B]	5		
BUS& 201	Business Law	5		
Select 10 credits from the following:				
ACCT 111	Computerized Accounting [RE]	5		
BUS 262	Management Principles [RE]	5		
BUS 265	Marketing Principles [RE]	5		
BUS 271	Human Relations in Business [RE]	5		
MRKT 102	Introduction to Digital Marketing [RE]	5		
MRKT 103	Social Media Strategy [RE]	5		
	Total Credits Required	**30**		

Expanded Functions Dental Auxiliary Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EFDA 100	Intro to Expanded Functions Dental Auxiliary [RE]	2		
EFDA 101	Restorative Dentistry [RE]	3		
EFDA 102	Amalgam Restorations [RE]	2		
EFDA 112	Amalgam Restorations Lab [RE]	3		
EFDA 123	EFDA Clinical Practice I [RE]	3		
EFDA 104	Composite Restorations [RE]	2		
EFDA 114	Composite Restorations Lab [RE]	3		
EFDA 105	Dental Impressions [RE]	2		
EFDA 115	Dental Impressions Lab [RE]	2		
EFDA 126	EFDA Clinical Practice II [RE]	4		
	Total Credits Required	**26**		

Fire Science Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
FS 100	Introduction to Fire Service [RE]	1		
FS 111	Fire Administration [RE]	3		
FS 121	Fire Tactics [RE]	3		
FS 131	Introduction to Fire Inspections [RE]	3		
FS 141	Chemistry of Hazardous Materials [RE]	3		
FS 151	Hazardous Materials for First Responders [RE]	3		
FS 211	Building Construction [RE]	3		
FS 222	Fire Tactics II [RE]	3		
FS 231	Fire Protection Equipment [RE]	3		
FS 241	Fire Investigation [RE]	3		
FS 251	Fire Service Hydraulics [RE]	3		
	Total Credits Required	**31**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 235	Technical Writing [C]	5		
Political Science - select 5 credits from the following:				
POLS& 202	United States Government [S/B]	5		
POLS 104	State and Local Government [S/B]	5		
Business Administration - select 5 credits from the following:				
BUS 262	Management Principles [RE]	5		
BUS 271	Human Relations in Business [RE]	5		
	Subtotal	**15**		

Electives

Select a minimum of 28 credits from the following courses.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BIOL& 160	General Biology W/ Lab [M/S]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
HE 240	Stress Management [PE]	3		
CS 101	Intro to Computers & Information Technology	5		
HSCI 147	Medical Terminology [RE]	5		
EMT 101	Emergency Medical Technician-Basic [RE]	12		
FS 193	Fire Science Independent Studies [RE]	4		
FS 293	Fire Science Independent Studies [RE]	1-10		
FS 299	Special Studies [RE]	1-10		
Note: the above courses are recommended.				
Business Administration - 5 credits				
BUS 262	Management Principles [RE]	5		
Chemistry - select a maximum of 5 credits				
CHEM& 110	Chemical Concepts W/ Lab [M/S]	5		
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 122	Intro to Organic Chemistry W/ Lab [M/S]	5		
CHEM& 123	Intro to Biochemistry W/ Lab [M/S]	5		
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	6		
CHEM& 162	General Chemistry II W/ Lab [M/S]	6		
CHEM& 163	General Chemistry III W/ Lab [M/S]	6		
Health Education - select a maximum of 5 credits				
HE 110	Concepts of Fitness [PE]	2		
HE 170	Health and Wellness [PE]	3		
HE 215	Health and Fitness for Life [PE]	3		
HE 220	Drugs and Health [PE]	3		
Physical Education - select a maximum of 2 credits				
PE 120	Weight Training I [PE]	1		
PE 121	Weight Training II [PE]	1		
Sociology - select a maximum of 5 credits				
SOC& 101	Intro to Sociology [S/B]	5		
Spanish - select a maximum of 5 credits				
SPAN& 121	Spanish I [H]	5		
SPAN& 122	Spanish II [H]	5		
SPAN& 123	Spanish III [H]	5		
	Subtotal	**28**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH 106+	MATH 106 or above	5		
PSYC 100+	PSYC 100 or above	3-5		
English - Select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**18-20**		
	Total Credits Required	**92-94**		

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

Health Physics Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

BAS degrees require a minimum of 60 credits of 300- and 400-level courses

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits [RE]	5		
NT 111	Basic Nuclear Math & Physics [RE]	5		
NT 121	Reactor Plant Operations [RE]	5		
NT 131	Nuclear Facility Components [RE]	5		
NT 141	Basic Reactor Safety, Theory, & Operations [RE]	5		
NT 150	Internship Seminar [RE]	3		
NT 160	Nuclear Chemistry [RE]	5		
NT 170	Mechanical & Fluid Power Transmission [RE]	5		
RPT 111	Radiation Fundamentals [RE]	5		
RPT 121	Radiation Monitoring [RE]	5		
RPT 131	Radiation Effects [RE]	5		
RPT 141	Radioactive Materials Handling [RE]	5		
RPT 211	Radiological Safety and Response [RE]	5		
RPT 222	Radiation Protection [RE]	5		
HPHYS 300	Radiation Physics I	5		
HPHYS 305	Radiation Physics II	5		
HPHYS 350	Health Physics Seminar	2		
HPHYS 400	External Dosimetry	5		
HPHYS 405	Internal Dosimetry	5		
HPHYS 415	Radiation Detection and Measurement & Lab	5		
Select 30 credits from the following:				
HPHYS 310	Nuclear Forensics	5		
HPHYS 315	Radiological and Nuclear Emergency Response	5		
HPHYS 320	Environmental Radioactivity	5		
HPHYS 325	Reactor Health Physics	5		
HPHYS 397	Special Studies Lecture	5		
HPHYS 398	Special Studies Lab	5		
HPHYS 410	Radiation Biology	5		
HPHYS 420	Medical Health Physics	5		
HPHYS 425	Nuclear and Radiological Regulatory Framework	5		
HPHYS 430	CHP Exam Preparation and Problem Solving	5		
	Subtotal	**125**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
Quantitative/Symbolic Reasoning - 20 credits:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
Humanities* -10 credits:				
PHIL 305	Professional Ethics [H]	5		
Choose any course from this distribution		5		
Social & Behavioral Sciences* - select 10 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Choose any course from this distribution		5		
Mathematical & Natural Science* - 10 credits:				
BIOL& 175	Human Biology W/ Lab [M/S]	5		
ENVS 310	Environmental Issues [M/S]	5		
	Subtotal	**60**		
	Total Credits Required	**185**		

Note:

*Course selections must meet the distribution requirements for the BAS degree.

- Students must earn a minimum 2.5 grade in all Health Physics (HPHYS) 300- and 400-level courses.
- Required minimum 185 credits.
- Required minimum cumulative GPA 2.0.
- Minimum grade 2.0 for MATH&141 and MATH&142.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.

Degree & Certificate Requirements

Health Science Associate in Science (AS)

Transfer Degree

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 101	Introduction to Healthcare [RE]	5		
HSCI 147	Medical Terminology [RE]	5		
	Subtotal	**10**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - 5 credits:				
ENGL& 101	English Composition I [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
Mathematics - 5 credits:				
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
Social & Behavioral Sciences - select 10 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Natural Sciences - select 10 credits from the following:				
BIOL& 160	General Biology W/ Lab [M/S]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 122	Intro to Organic Chemistry W/ Lab [M/S]	5		
CHEM& 123	Intro to Biochemistry W/ Lab [M/S]	5		
NUTR& 101	Nutrition [M/S]	5		
	Subtotal	**35-37**		

Available concentrations: General, Expanded Functions Dental Auxiliary (EFDA), Spanish Medical Interpreter (SMIP), or Substance Use Disorder Professional (SUDP).

Choose one concentration from below:

Degree & Certificate Requirements

General

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EMT 101	Emergency Medical Technician-Basic [RE]	10-12		
HSCI 102	Medical Office Specialist I [RE]	5		
HSCI 103	Medical Office Specialist II [RE]	4		
HSCI 122	Medical Office Specialist Clinical [RE]	5		
NA 100	Nursing Assistant [RE]	4		
NA 102	Nursing Assistant Lab [RE]	4		
PHLEB 100	Phlebotomy I [RE]	5		
PHLEB 101	Phlebotomy Clinical [RE]	3		
SPT 100	Foundations of Sterile Processing [RE]	6		
SPT 150	Sterile Processing Clinical [RE]	12		
Note: the above courses are recommended.				
CS 101	Intro to Computers & Information Technology	5		
MATH 106+	MATH 106 or above (except MATH 109)	5		
NUTR& 101	Nutrition [M/S]	5		
PHYS& 110	Physics for Non-Science Majors W/ Lab [M/S]	5		
Biology - a maximum of 15 credits may be selected:				
BIOL& 160	General Biology W/ Lab [M/S]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
Business Administration - a maximum of 5 credits may be selected:				
BUS 262	Management Principles [RE]	5		
BUS 271	Human Relations in Business [RE]	5		
Chemistry - a maximum of 5 credits may be selected:				
CHEM& 110	Chemical Concepts W/ Lab [M/S]	5		
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 122	Intro to Organic Chemistry W/ Lab [M/S]	5		
CHEM& 123	Intro to Biochemistry W/ Lab [M/S]	5		
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	6		
CHEM& 162	General Chemistry II W/ Lab [M/S]	6		
CHEM& 163	General Chemistry III W/ Lab [M/S]	6		
Communication - a maximum of 5 credits may be selected:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
English - a maximum of 5 credits may be selected:				
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Health Education - a maximum of 5 credits may be selected:				
HE 110	Concepts of Fitness [PE]	2		
HE 170	Health and Wellness [PE]	3		
HE 215	Health and Fitness for Life [PE]	3		
HE 220	Drugs and Health [PE]	3		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HE 240	Stress Management [PE]	3		
Physical Education - a maximum of 2 credits may be selected:				
PE 120	Weight Training I [PE]	1		
PE 121	Weight Training II [PE]	1		
Social & Behavioral Sciences - a maximum of 10 credits may be selected:				
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Spanish - a maximum of 5 credits may be selected:				
SPAN& 121	Spanish I [H]	5		
SPAN& 122	Spanish II [H]	5		
SPAN& 123	Spanish III [H]	5		
SPAN 205	Spanish for Spanish Speakers [H]	5		
SPAN 206	Spanish for Spanish Speakers [H]	5		
SPAN 207	Spanish for Spanish Speakers [H]	5		
	Subtotal	**45**		

Expanded Functions Dental Auxiliary

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EFDA 100	Intro to Expanded Functions Dental Auxiliary [RE]	2		
EFDA 101	Restorative Dentistry [RE]	3		
EFDA 102	Amalgam Restorations [RE]	2		
EFDA 112	Amalgam Restorations Lab [RE]	3		
EFDA 123	EFDA Clinical Practice I [RE]	3		
EFDA 104	Composite Restorations [RE]	2		
EFDA 114	Composite Restorations Lab [RE]	3		
EFDA 105	Dental Impressions [RE]	2		
EFDA 115	Dental Impressions Lab [RE]	2		
EFDA 126	EFDA Clinical Practice II [RE]	4		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
Chemistry - select 5 credits from the following:				
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 122	Intro to Organic Chemistry W/ Lab [M/S]	5		
CHEM& 123	Intro to Biochemistry W/ Lab [M/S]	5		
	Subtotal	**46-49**		

Spanish Medical Interpreter

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CMST 260	Multicultural Communication [C]	5		
INTP 101	Introduction to the Interpreting Profession [RE]	5		
INTP 102	Medical Terminology for Interpreters I [RE]	5		
INTP 103	Consecutive Interpreting I [RE]	5		
INTP 104	Medical Terminology for Interpreters II [RE]	5		
INTP 201	Modes of Interpreting [RE]	5		
INTP 202	Consecutive Interpreting II [RE]	5		
PSYC 270	Health Psychology [PE]	5		
ANTH& 206	Cultural Anthropology [S/B]	5		
or				
ICS 120	Survey of Hispanic Culture [H]	5		
	Subtotal	**45**		

Substance Use Disorder Professional

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 201	Foundations of Addiction & Substance Use Disorders [RE]	5		
HSCI 202	Treatment Methods and Counseling Techniques [RE]	5		
HSCI 203	Cultural Competence in Substance Use Disorder Counseling [RE]	5		
HSCI 204	Clinical Skills for Substance Use Disorders [RE]	5		
HSCI 205	Professional Ethics and Law in Substance Use Disorder Counseling [RE]	5		
HSCI 206	Psychopathology and Relapse Prevention [RE]	5		
HSCI 207	Case Management and Community Education [RE]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
PSYC& 220	Psychological Disorders [S/B]	5		
	Subtotal	**45**		
	Total Credits Required	**90-96**		

Graduation Requirements:
The Health Science Associate in Science Degree (AS) does NOT guarantee that the student has met the general education requirements at the transfer baccalaureate institution.

- Required minimum 90 credits.
- Required minimum cumulative college-level GPA of 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your completion coach or faculty advisor.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or faculty advisor.

Note:
Students should work with a counselor, completion coach or academic advisor and the catalog of the four-year institution to which they plan to transfer for further guidance specific to their goals. Early in the program, students should check with their intended transfer university/college advisor for specific admissions and health sciences program requirements for course choices where options are listed for Humanities, Mathematical & Natural Science, Social & Behavioral Science and electives. A cumulative college-level GPA of 2.0 is required. Some transfer institutions require a higher overall GPA, a higher GPA in a subset of courses, or a specific minimum grade in one or more courses. Check with your planned transfer institution for these requirements.

Hospitality Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSP 102	Lodging Operations [RE]	2		
HSP 105	ServeSafe Training and Certification [RE]	2		
HSP 107	Guest Service Professional [RE]	2		
HSP 110	Introduction to Hospitality [RE]	5		
HSP 115	Food and Beverage Management [RE]	5		
	Subtotal	**16**		

Major Support

Select 0 to 3 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CA 120	Introduction to Computer Applications [RE]	3		
HSP 108	Hospitality Internship [RE]	1-3		
	Subtotal	**0-3**		
	Total Credits Required	**16-19**		

Hydroponics and Greenhouse Management Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HORT 202	Cultivated Plants W/Lab [RE]	5		
HORT 203	Crop Growth & Development W/ Lab [RE]	5		
HORT 242	Hydroponic Technology w/ Lab [RE]	4		
HORT 235	Greenhouse Production and Management W/ Lab [RE]	3		
AG 289	Agriculture Business Concepts [RE]	5		
	Total Credits Required	**22**		

Introduction to Automotive Preventative Maintenance Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 107	Introduction to Automotive Technology I & Lab [RE]	4		
AMT 113	Introduction to Automotive Technology II & Lab [RE]	10		
	Total Credits Required	**14**		

Note:

Students must earn a minimum 2.0 grade in all AMT courses.

Introduction to CNC Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MT 211	Introduction to CNC Machining [RE]	4		
MT 212	Introduction to CNC Machining Lab [RE]	7		
	Total Credits Required	**11**		

Students must earn a minimum 2.0 grade in all MT courses.
Required minimum cumulative GPA 2.0.

Leadership Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 271	Human Relations in Business [RE]	5		
Select 10 credits from the following:				
BUS 180	Professionalism & Customer Service [RE]	5		
BUS 185	Leading & Managing Teams [RE]	5		
BUS 190	Leadership Practicum [RE]	5		
	Total Credits Required	**15**		

Logistics Technician Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
INT 130	Logistics Technician [RE]	6		
INT 101	Forklift Operations [RE]	1		
LSCR 100	Introduction to Logistics [RE]	5		
	Subtotal	**12**		

Major Support

Select 0 to 7 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CA 101	Introduction to Keyboarding [RE]	2		
CA 120	Introduction to Computer Applications [RE]	3		
CA 140	Introduction to Microsoft Word [RE]	1		
CA 150	Introduction to Microsoft Excel [RE]	1		
CA 155	Intermediate Microsoft Excel [RE]	2		
	Subtotal	**0-7**		
	Total Credits Required	**12-19**		

Degree & Certificate Requirements

Logistics and Supply Chain Resilience Associate of Applied Science - Transfer (AAS-T)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
LSCR 100	Introduction to Logistics [RE]	5		
LSCR 101	Intro to Purchasing and Supply Chain Management [RE]	5		
LSCR 150	Introduction to Supply Chain Resilience [RE]	5		
LSCR 220	Supply Chain Analytics [RE]	5		
LSCR 230	Contract Management [RE]	5		
LSCR 240	Enterprise Resource Planning Systems [RE]	5		
LSCR 250	Advanced Supply Chain Resilience [RE]	5		
LSCR 260	Contemporary Topics in Global Supply Chain Management [RE]	5		
LSCR 280	Logistics and Supply Chain Resilience Capstone [RE]	5		
	Subtotal	**45**		

Major Support

Select a minimum of 20 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management [RE]	5		
PROJ 110	Project Planning [RE]	5		
Select 10 credits from the following:				
PROJ 150	Agile Project Management [RE]	5		
PROJ 222	Project Quality Management [RE]	5		
PROJ 230	Emotional Intelligence & Communication [RE]	5		
PROJ 231	Project Risk Management [RE]	5		
INT 130	Logistics Technician [RE]	6		
	Subtotal	**20-21**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
ENGL& 235	Technical Writing [C]	5		
Mathematics - select 5 credits from the following:				
MATH& 107+	MATH& 107 or higher	5		
Social and Behavioral Sciences				
BUS& 101	Introduction to Business [S/B]	5		
Select 5 credits from the following:				
ECON& 201	Micro Economics [S/B]	5		
ECON& 202	Macro Economics [S/B]	5		
	Subtotal	**25**		
	Total Credits Required	**90-91**		

Magnetic Resonance Imaging (MRI) Technology Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
IMAGE 250	Cross Sectional Anatomy [RE]	3		
IMAGE 271	MRI Clinical Practicum [RE]	12		
IMAGE 281	MRI Instrumentation and Procedures [RE]	3		
	Total Credits Required	**18**		

Mammography Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
IMAGE 225	Mammography [RE]	4		
IMAGE 229	Mammography Clinical [RE]	4		
	Total Credits Required	**8**		

Manual Machining Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 105	Blueprint Reading [RE]	3		
MT 102	Solidworks(R) I [RE]	4		
MT 202	Solidworks(R) II [RE]	4		
MT 111	Introduction to Manual Machining [RE]	4		
MT 112	Introduction to Manual Machining Lab [RE]	7		
MT 121	Intermediate Manual Machining Techniques [RE]	4		
MT 122	Intermediate Manual Machining Techniques Lab [RE]	7		
MT 131	Advanced Manual Machining [RE]	4		
MT 132	Advanced Manual Machining Lab [RE]	7		
	Total Credits Required	**44**		

Students must earn a minimum 2.0 grade in all MT and BPR courses.
Required minimum cumulative GPA 2.0.

Manual Machining Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 105	Blueprint Reading [RE]	3		
MT 111	Introduction to Manual Machining [RE]	4		
MT 112	Introduction to Manual Machining Lab [RE]	7		
	Total Credits Required	**14**		

Students must earn a minimum 2.0 grade in all MT and BPR courses.
Required minimum cumulative GPA 2.0.

Degree & Certificate Requirements

Math Education Associate in Arts & Sciences (AA/DTA/MRP)

Direct Transfer Agreement/Major Related Program

2026-2027 Degree Requirements

Communication*

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 220	Public Speaking [C]	5		
	Subtotal	**15**		

Quantitative/Symbolic Reasoning*

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 151	Calculus I [M/S] [Q/SR]	5		
	Subtotal	**5**		

Humanities*

No more than 10 credits per discipline area; only 5 credits of world language will apply. Courses must be selected from at least two of the three groups. At least one course must be selected from Group A. Only one course may be selected from Group C. See catalog for updated listing of courses for each group.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		5		
	Subtotal	**15**		

Social & Behavioral Sciences*

No more than 10 credits per discipline area. Courses must be selected from two different subject areas.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PSYC& 100	General Psychology [S/B]	5		
		5		
		5		
	Subtotal	**15**		

Mathematical & Natural Science*

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 152	Calculus II [M/S] [Q/SR]	5		
Natural Science - 10 credits must be from Natural Science courses. One course must be a laboratory science.				
		5		
		5		
	Subtotal	**15**		

Health & Physical Education*

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		3		
	Subtotal	**3**		

Electives

Additional electives require departmental approval.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 153	Calculus III [M/S] [Q/SR]	5		
MATH& 254	Calculus IV [M/S] [Q/SR]	5		
MATH 243	Linear Algebra [M/S] [Q/SR]	5		
Additional electives with departmental approval:				
		5		
		4		
	Subtotal	**24**		
	Total Credits Required	**92**		

Graduation Requirements:

*Course selections must meet the distribution requirements for the AA/DTA degree.

- Required minimum 92 credits.
- Required minimum cumulative college-level GPA of 2.0; although, teacher preparation programs typically require a higher overall college-level GPA than the minimum 2.0.
- All MATH and MATH& courses must have a minimum grade of 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your counselor, completion coach or faculty advisor.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.
- Maximum three credits of PE may be applied.

Degree & Certificate Requirements

Medical Assistant Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MA 111	Pharmacology I [RE]	5		
MA 114	Human Body Structure, Function, and Diseases I [RE]	4		
MA 115	Clinical Procedures Theory I [RE]	4		
MA 116	Clinical Procedures Lab I [RE]	4		
MA 140	Admin. Medical Assistant Office Procedures I [RE]	5		
MA 141	Career Development for Medical Assistants [RE]	2		
MA 211	Pharmacology II [RE]	5		
MA 214	Human Body Structure, Function, and Diseases II [RE]	4		
MA 215	Clinical Procedures Theory II [RE]	4		
MA 216	Clinical Procedures Lab II [RE]	4		
MA 240	Admin. Medical Assistant Office Procedures II [RE]	6		
MA 241	Externship Seminar [RE]	2		
MA 242	Externship [RE]	6		
	Subtotal	**55**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology [RE]	5		
Electives - select 15 credits of courses level 100 or above from the Humanities, Social Science, Behavioral Science or Natural Science distribution list:				
		5		
		5		
		5		
	Subtotal	**20**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH 106+	MATH 106 or above (except MATH 109)	5		
PSYC& 100	General Psychology [S/B]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**20**		
	Total Credits Required	**95**		

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

Degree & Certificate Requirements

Medical Assistant One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MA 111	Pharmacology I [RE]	5		
MA 114	Human Body Structure, Function, and Diseases I [RE]	4		
MA 115	Clinical Procedures Theory I [RE]	4		
MA 116	Clinical Procedures Lab I [RE]	4		
MA 140	Admin. Medical Assistant Office Procedures I [RE]	5		
MA 141	Career Development for Medical Assistants [RE]	2		
MA 211	Pharmacology II [RE]	5		
MA 214	Human Body Structure, Function, and Diseases II [RE]	4		
MA 215	Clinical Procedures Theory II [RE]	4		
MA 216	Clinical Procedures Lab II [RE]	4		
MA 240	Admin. Medical Assistant Office Procedures II [RE]	6		
MA 241	Externship Seminar [RE]	2		
MA 242	Externship [RE]	6		
	Subtotal	**55**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology [RE]	5		
	Subtotal	**5**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PSYC& 100	General Psychology [S/B]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**15**		
	Total Credits Required	**75**		

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

Medical Office Specialist Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 103	Medical Office Specialist II [RE]	4		
HSCI 122	Medical Office Specialist Clinical [RE]	5		
HSCI 147	Medical Terminology [RE]	5		
Select 5 credits from the following:				
HSCI 102	Medical Office Specialist I [RE]	5		
MA 140	Admin. Medical Assistant Office Procedures I [RE]	5		
	Total Credits Required	**19**		

Degree & Certificate Requirements

Multi-Occupational Trades Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
1. Completion of an apprenticeship program of at least 5,200 (equivalent to 30 credit hours) on-the-job training (OJT) hours certified by the corresponding joint apprenticeship and training committee (JATC).				
2. Completion of 450 hours (equivalent to 40 credit hours) of related supplemental instruction (RSI) certified by JATC. The RSI must be provided by a JATC affiliated with Columbia Basin College. A student must provide a letter from their CBC affiliated JATC to certify RSI hours.				
	Subtotal	**5650 hours/70 credits**		

Major Support

Select one of the following with approval from JATC:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS& 101	Introduction to Business [S/B]	5		
BUS 262	Management Principles [RE]	5		
CA 100	Introduction to Microcomputers	4		
SPAN&121+	Spanish I or above	5		
	Subtotal	**4-5**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Mathematics - select 5 credits from the following:				
MATH& 107	Math In Society [M/S] [Q/SR]	5		
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
English - 5 credits:				
ENGL& 101	English Composition I [C]	5		
Human Relations - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
CMST 260	Multicultural Communication [C]	5		
Communication Studies - select 5 credits from the following:				
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
	Subtotal	**20**		
	Total Credits Required	**94-95**		

Complete at least one-third of the total credits required (30 credits of RSI, Major Support, and General Education) in residence at CBC.

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

A student's completed CBC affiliated apprenticeship will be indicated on the transcript upon successful completion of the degree.

Visit columbiabasin.edu/apprenticeship for a list of CBC affiliated apprenticeships.

Nuclear Technology Instrumentation & Control Technician Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits [RE]	5		
ELT 134	Alternating Current Circuits [RE]	5		
ELT 154	Semiconductors and Op Amps [RE]	5		
ELT 171	Digital Fundamentals [RE]	5		
ELT 211	Applied Electronics [RE]	5		
IC 201	Instrumentation I [RE]	5		
IC 202	Instrumentation II [RE]	5		
IC 203	Instrumentation III [RE]	5		
IC 230	PLC Programming & Computer Interfacing [RE]	5		
NT 111	Basic Nuclear Math & Physics [RE]	5		
NT 121	Reactor Plant Operations [RE]	5		
NT 131	Nuclear Facility Components [RE]	5		
NT 141	Basic Reactor Safety, Theory, & Operations [RE]	5		
NT 150	Internship Seminar [RE]	3		
NT 160	Nuclear Chemistry [RE]	5		
NT 170	Mechanical & Fluid Power Transmission [RE]	5		
RPT 111	Radiation Fundamentals [RE]	5		
	Subtotal	**83**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Select 0 to 5 credits from the following:				
NT 101	Introduction to Clean Energy [RE]	5		
NT 152	Internship [RE]	5		
	Subtotal	**0-5**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Mathematics - 5 credits:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
Social & Behavioral Sciences - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
	Subtotal	**20**		
	Total Credits Required	**103-108**		

Students must receive minimum 2.0 grade in all ELT, IC, NT, and RPT courses.
Required minimum cumulative 2.0 GPA.

Degree & Certificate Requirements

Nuclear Technology Instrumentation & Control Technician One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits [RE]	5		
ELT 134	Alternating Current Circuits [RE]	5		
ELT 154	Semiconductors and Op Amps [RE]	5		
NT 111	Basic Nuclear Math & Physics [RE]	5		
NT 121	Reactor Plant Operations [RE]	5		
NT 131	Nuclear Facility Components [RE]	5		
NT 141	Basic Reactor Safety, Theory, & Operations [RE]	5		
	Subtotal	**40**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Select 0 to 5 credits from the following:				
NT 101	Introduction to Clean Energy [RE]	5		
	Subtotal	**0-5**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Mathematics - 5 credits:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
	Subtotal	**10**		
	Total Credits Required	**50-55**		

Students must receive minimum 2.0 grade in all ELT and NT courses.
Required minimum cumulative 2.0 GPA.

Degree & Certificate Requirements

Nuclear Technology Non-Licensed Nuclear Operator Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits [RE]	5		
NT 111	Basic Nuclear Math & Physics [RE]	5		
NT 121	Reactor Plant Operations [RE]	5		
NT 131	Nuclear Facility Components [RE]	5		
NT 141	Basic Reactor Safety, Theory, & Operations [RE]	5		
NT 150	Internship Seminar [RE]	3		
NT 160	Nuclear Chemistry [RE]	5		
NT 170	Mechanical & Fluid Power Transmission [RE]	5		
NOP 111	Hydraulic and Fluid Flows [RE]	5		
NOP 221	Advanced Operational Systems [RE]	5		
NOP 231	Advanced Facility Components [RE]	5		
NOP 241	Chemical & Water Treatment Systems [RE]	5		
NOP 251	Advanced Thermodynamics and Heat Transfer [RE]	5		
NOP 261	Instrumentation & Control for Operators [RE]	5		
RPT 111	Radiation Fundamentals [RE]	5		
	Subtotal	**73**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Select 0 to 5 credits from the following:				
NT 101	Introduction to Clean Energy [RE]	5		
NT 152	Internship [RE]	5		
	Subtotal	**0-5**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Mathematics - 5 credits:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
Social & Behavioral Sciences - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
	Subtotal	**20**		
	Total Credits Required	**93-98**		

Students must receive minimum 2.0 grade in all ELT, IC, NT, and NOP courses.

Required minimum cumulative 2.0 GPA.

Nuclear Technology Non-Licensed Nuclear Operator One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits [RE]	5		
NT 111	Basic Nuclear Math & Physics [RE]	5		
NT 114	Introduction to Radiation Safety [RE]	5		
NT 121	Reactor Plant Operations [RE]	5		
or				
NT 122	Basic Nuclear Facilities [RE]	4		
NT 131	Nuclear Facility Components [RE]	5		
NT 141	Basic Reactor Safety, Theory, & Operations [RE]	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance [RE]	5		
	Subtotal	**28**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Chemistry - select 5 to 6 credits from the following:				
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	6		
Physics - select 5 credits from the following:				
PHYS& 110	Physics for Non-Science Majors W/ Lab *or above*	5		
	Subtotal	**10-11**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Mathematics - 5 credits:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
	Subtotal	**15**		
	Total Credits Required	**53-54**		

Students must receive minimum 2.0 grade in all ELT and NT courses.
Required minimum cumulative 2.0 GPA.

Degree & Certificate Requirements

Nuclear Technology Radiation Protection Technician Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits [RE]	5		
NT 111	Basic Nuclear Math & Physics [RE]	5		
NT 121	Reactor Plant Operations [RE]	5		
NT 131	Nuclear Facility Components [RE]	5		
NT 141	Basic Reactor Safety, Theory, & Operations [RE]	5		
NT 150	Internship Seminar [RE]	3		
NT 160	Nuclear Chemistry [RE]	5		
NT 170	Mechanical & Fluid Power Transmission [RE]	5		
RPT 111	Radiation Fundamentals [RE]	5		
RPT 121	Radiation Monitoring [RE]	5		
RPT 131	Radiation Effects [RE]	5		
RPT 141	Radioactive Materials Handling [RE]	5		
RPT 211	Radiological Safety and Response [RE]	5		
RPT 222	Radiation Protection [RE]	5		
	Subtotal	**68**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Biology - 5 credits:				
BIOL& 175	Human Biology W/ Lab [M/S]	5		
Select 0 to 5 credits from the following:				
NT 101	Introduction to Clean Energy [RE]	5		
NT 152	Internship [RE]	5		
	Subtotal	**5-10**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Mathematics - select 5 to 10 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
Social & Behavioral Sciences - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
	Subtotal	**20-25**		
	Total Credits Required	**93-103**		

Students must receive minimum 2.0 grade in all ELT, NT, and RPT courses.
Required minimum cumulative 2.0 GPA.

Degree & Certificate Requirements

Nuclear Technology Radiation Protection Technician One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits [RE]	5		
NT 111	Basic Nuclear Math & Physics [RE]	5		
NT 121	Reactor Plant Operations [RE]	5		
or				
NT 122	Basic Nuclear Facilities [RE]	4		
NT 131	Nuclear Facility Components [RE]	5		
NT 141	Basic Reactor Safety, Theory, & Operations [RE]	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance [RE]	5		
RPT 111	Radiation Fundamentals [RE]	5		
	Subtotal	**28**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Biology or Chemistry - select 5 to 6 credits from the following:				
BIOL& 175	Human Biology W/ Lab [M/S]	5		
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
CHEM& 161	General Chemistry I W/ Lab [M/S]	6		
Physics - select 5 credits from the following:				
PHYS& 110 Physics for Non-Science Majors W/ Lab *or above*		5		
	Subtotal	**10-11**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Mathematics - 5 credits:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
	Subtotal	**15**		
	Total Credits Required	**53-54**		

Students must receive minimum 2.0 grade in all NT and RPT courses.
Required minimum cumulative 2.0 GPA.

Nursing (ADN) Associate of Applied Science - Transfer (AAS-T)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
NRS 101	Basic Pharmacology Math [RE]	1		
NRS 102	Pharmacological Classifications I [RE]	1		
NRS 103	Pharmacological Classifications II [RE]	1		
NRS 111	Nursing I [RE]	7		
NRS 113	Nursing I Lab [RE]	4		
NRS 121	Nursing II [RE]	5		
NRS 123	Nursing II Lab [RE]	5		
NRS 131	Nursing III [RE]	5		
NRS 133	Nursing III Lab [RE]	5		
NRS 135	Nursing Trends Lab [RE]	4		
NRS 201	Pharmacological Classifications III [RE]	1		
NRS 211	Nursing IV [RE]	5		
NRS 213	Nursing IV Lab [RE]	5		
NRS 221	Nursing V [RE]	5		
NRS 223	Nursing V Lab [RE]	5		
NRS 222	Professional Issues I [RE]	1		
NRS 231	Nursing VI [RE]	5		
NRS 233	Nursing VI Lab [RE]	8		
NRS 232	Professional Issues II [RE]	2		
NRS 235	Nursing Trends Lab [RE]	2		
	Total Credits Required	**77**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CHEM&121+	Intro to Chemistry w/ Lab or above	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
	Subtotal	**25-28**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**15**		
	Total Credits Required	**117-120**		

Nursing Assistant Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
NA 100	Nursing Assistant [RE]	4		
NA 102	Nursing Assistant Lab [RE]	4		
	Total Credits Required	**8**		

Nursing Bachelor of Science (BSN)

2026-2027 Degree Requirements

BAS degrees require a minimum of 60 credits of 300- and 400-level courses

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
NRS 301	Nursing Roles, Dimensions, and Perspectives	3		
NRS 315	Healthcare Informatics/Information Technology	5		
NRS 315 is cross-listed with AG 402, AMGT 402, and HCAD 402. A student may not use equivalent cross-listed courses for the same graduation requirement.				
NRS 320	Nursing Research and Evidence-Based Practice	5		
NRS 350	Population Health, Pharmacology, and Assessment	5		
NRS 410	Nursing Leadership and Management	5		
NRS 420	Populations and Global Health Nursing	3		
NRS 421	Populations and Global Health Nursing Practicum	2		
NRS 460	Leadership Capstone	2		
	Subtotal	**30**		

Available pathways: Non-DTA/MRP-ADN Graduates, DTA/MRP-ADN Graduates, or LPN to BSN
Choose one pathway from below:

Non-Direct Transfer Agreement/Major Related Program-ADN Graduates (Pathway 1)

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Major Support - 5 credits:				
NUTR& 101	Nutrition [M/S]	5		
General Education - 20 credits:				
ENGL 315	Writing for Health Professionals [C]	5		
or				
CMST 320	Health Communication	5		
PHIL 315	Professional Ethics In Healthcare [H]	5		
ICS 310	American Diversity [H]	5		
or				
ICS 320	Culture and Health [H]	5		
ECON 315	Economics of Healthcare [S/B]	5		
ADN Curriculum		**90**		
Credit by Examination (NCLEX-RN)		**35**		
	Subtotal	**150**		
	Total Credits Required	**180**		

Direct Transfer Agreement/Major Related Program-ADN Graduates (Pathway 2)

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
General Education - 15 credits:				
ENGL 315	Writing for Health Professionals [C]	5		
or				
CMST 320	Health Communication	5		
ICS 310	American Diversity [H]	5		
or				
ICS 320	Culture and Health [H]	5		
ECON 315	Economics of Healthcare [S/B]	5		
ADN Curriculum (90 credits) + Credit by Examination (NCLEX-RN) (45 credits)*		**135**		
	Subtotal	**150**		
	Total Credits Required	**180**		

LPN to BSN (Pathway 3)

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Additional Major Courses - 40 credits:				
NRS 305	Pharmacology	4		
NRS 310	The RN's Role in Holistic Health Assessment and Care	3		
NRS 311	Foundations Skill Lab	2		
NRS 330	Acute Care Nursing Theory I	5		
NRS 331	Acute Care Nursing Clinical I	4		
NRS 332	Acute Care Nursing I Lab	1		
NRS 340	Acute Care Nursing Theory II	5		
NRS 341	Acute Care Nursing Clinical II	4		
NRS 342	Acute Care Nursing Lab II	1		
NRS 400	Acute Care Nursing Theory III	5		
NRS 401	Acute Care Clinical Preceptorship	5		
NRS 499	Guided NCLEX Prep	1		
Major Support - 55-58 credits:				
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
BIOL& 160	General Biology W/ Lab [M/S]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
ENGL& 101	English Composition I [C]	5		
CHEM& 121+	CHEM& 121 or higher	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
NUTR& 101	Nutrition [M/S]	5		
Choose 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
General Education - 20 credits:				
ENGL 315	Writing for Health Professionals [C]	5		
or				
CMST 320	Health Communication	5		
PHIL 315	Professional Ethics In Healthcare [H]	5		
ICS 310	American Diversity [H]	5		
or				
ICS 320	Culture and Health [H]	5		
ECON 315	Economics of Healthcare [S/B]	5		
LPN Credit by Examination (NCLEX-PN)		**35**		

Subtotal **150-153**

Total Credits Required **180-183**

Note:

Students who did not graduate from a school of nursing with a Direct-Transfer Agreement/Major Related Program Associate Degree in Nursing (DTA/MRP-ADN) take pathway 1 and students who did graduate from a school of nursing with a Direct-Transfer Agreement/Major Related Program Associate Degree in Nursing (DTA/MRP-ADN) take pathway 2.

*Students who take pathway 2 will use 45 credits from the Credit by Examination (NCLEX-RN) earned in their ADN DTA/MRP, which is equivalent to CBC's NRS 399, to go towards the minimum 60 credits of 300 and 400 level courses.

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your counselor, completion coach, or faculty advisor.

Degree & Certificate Requirements

Occupational Safety & Health Technology Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
OSH 101	Fundamentals of Occupational Safety & Health [RE]	5		
OSH 124	Industrial and Construction Safety Regulations [RE]	5		
OSH 147	Ethics, Documentation, and Records [RE]	5		
OSH 151	Accident Prevention, Inspection & Investigations [RE]	5		
OSH 153	Risk Management [RE]	5		
OSH 177	Industrial Chemical Safety & Hazards [RE]	5		
OSH 231	Biological Hazards [RE]	5		
OSH 233	Fire Protection Systems [RE]	5		
OSH 235	Physical Hazards [RE]	5		
OSH 272	Ergonomics [RE]	5		
OSH 277	Environmental Management [RE]	5		
OSH 280	Industrial Instrumentation and Equipment [RE]	5		
	Subtotal	**60**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Science - 10 credits:				
BIOL& 175	Human Biology W/ Lab [M/S]	5		
CHEM& 140	General Chemistry Prep W/ Lab [M/S]	5		
Mathematics - select 5 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
	Subtotal	**15**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - select 5 credits from the following:				
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
English - 10 credits:				
ENGL& 101	English Composition I [C]	5		
ENGL& 235	Technical Writing [C]	5		
Social & Behavioral Sciences - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
	Subtotal	**20**		
	Total Credits Required	**95**		

Students must receive minimum 2.0 grade in all OSH courses.
Required minimum cumulative GPA 2.0.

Paramedic One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PMD 201	Paramedic I [RE]	6		
PMD 210	Paramedic I Lab [RE]	2		
PMD 202	Paramedic II [RE]	6		
PMD 220	Paramedic II Lab [RE]	3		
PMD 203	Paramedic III [RE]	6		
PMD 230	Paramedic III Lab [RE]	3		
PMD 204	Paramedic IV [RE]	6		
PMD 240	Paramedic IV Lab [RE]	3		
PMD 205	Paramedic V [RE]	6		
PMD 250	Paramedic V Lab [RE]	3		
PMD 206	Paramedic VI [RE]	6		
PMD 260	Paramedic VI Lab [RE]	3		
	Subtotal	**53**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EMT 101	Emergency Medical Technician-Basic [RE]	10-12		
	Subtotal	**10-12**		
	Total Credits Required	**63-65**		

Degree & Certificate Requirements

Paramedicine Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PMD 201	Paramedic I [RE]	6		
PMD 210	Paramedic I Lab [RE]	2		
PMD 202	Paramedic II [RE]	6		
PMD 220	Paramedic II Lab [RE]	3		
PMD 203	Paramedic III [RE]	6		
PMD 230	Paramedic III Lab [RE]	3		
PMD 204	Paramedic IV [RE]	6		
PMD 240	Paramedic IV Lab [RE]	3		
PMD 205	Paramedic V [RE]	6		
PMD 250	Paramedic V Lab [RE]	3		
PMD 206	Paramedic VI [RE]	6		
PMD 260	Paramedic VI Lab [RE]	3		
	Total Credits Required	**53**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HE 240	Stress Management [PE]	3		
BUS 271	Human Relations in Business [RE]	5		
CS 101	Intro to Computers & Information Technology	5		
HSCI 147	Medical Terminology [RE]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
	Subtotal	**28-30**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 235	Technical Writing [C]	5		
PSYC& 100	General Psychology [S/B]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**25**		
	Total Credits Required	**106-108**		

Phlebotomy Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHLEB 100	Phlebotomy I [RE]	5		
PHLEB 101	Phlebotomy Clinical [RE]	3		
	Total Credits Required	**8**		

Pre-Nursing Associate in Arts & Sciences Degree (AA/DTA/MRP)

Direct Transfer Agreement/Major Related Program

2026-2027 Degree Requirements

This degree is applicable to students planning to prepare for an upper-division Bachelor of Science, Nursing (Entry-to-practice/basic BSN) pathway. Some colleges/universities have requirements for admissions to the Pre-Nursing major that go beyond those specified below. Students can possibly meet these requirements by careful selection of distribution and additional elective courses. Students should work with a counselor, completion coach or academic advisor and the catalog of the four-year institution to which they plan to transfer for further guidance specific to their goals. Early in the program, students should check with their intended transfer university/college advisor for specific admissions and Nursing program requirements for course choices where options are listed for Humanities, Mathematical & Natural Science, Social & Behavioral Science and electives. A cumulative college-level GPA of 2.0 is required. Some transfer institutions require a higher overall GPA, a higher GPA in a subset of courses, or a specific minimum grade in one or more courses. Check with your planned transfer institution for these requirements.

Communication *1

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
English - select 5 additional credits from the following:				
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
	Subtotal	**15**		

Quantitative/Symbolic Reasoning *2

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Quantitative Reasoning:				
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
	Subtotal	**5**		

Humanities *3

Select three courses from the list below. Courses must be selected from at least two different subject areas. No more than five credits in performance/skills courses may be selected. At least two courses must be selected from Group A. Only one course may be selected from Group B.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Group A - at least two courses must be selected from this group.				
ART& 100	Art Appreciation [H]	5		
ART 116	Art History Ancient World [H]	5		
ART 117	Art History Medieval-Baroque [H]	5		
ART 118	Art History Modern Times [H]	5		
DRMA& 101	Intro to Theatre [H]	5		
DRMA 215	Survey of Theatre History [H]	5		
ENGL& 111	Intro to Literature [H]	5		
ENGL 140	The Cinema [H]	5		
ENGL 160	Women's Literature [H]	5		
ENGL 180	Multicultural Literature [H]	5		
ENGL 195	Bible As Literature [H]	5		
ENGL 203	Mythology [H]	5		
ENGL 210	Intro to Linguistics [H]	5		
ENGL& 220	Intro to Shakespeare [H]	5		
ENGL& 236	Creative Writing I [H]	5		
ENGL& 237	Creative Writing II [H]	5		
ENGL& 244	American Literature I [H]	5		
ENGL& 245	American Literature II [H]	5		
ENGL& 246	American Literature III [H]	5		
ENGL& 254	World Literature I [H]	5		
ENGL& 255	World Literature II [H]	5		
ENGL& 256	World Literature III [H]	5		
ENGL 257	English Grammar [H]	5		
ENGL 264	English Literature I [H]	5		
ENGL 265	English Literature II [H]	5		
ENGL 266	English Literature III [H]	5		
ENGL 275	The Lord of The Rings [H]	5		
ENGL 280	Lesbian, Gay, Bisexual, Trans, Queer Studies [H]	5		
HIST& 126	World Civilizations I [H]	5		
HIST& 127	World Civilizations II [H]	5		
HIST& 128	World Civilizations III [H]	5		
HIST& 215	Women in U.S. History [H]	5		
HIST& 215 is cross-listed with WS 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ICS 120	Survey of Hispanic Culture [H]	5		
ICS 125	Native American Culture [H]	5		
ICS 130	Survey of Asian American Culture [H]	5		
ICS 135	Survey of African American Cultures [H]	5		
ICS 200	Intercultural Leadership [H]	5		
ICS 222	Columbia Basin Cultures [H]	5		
MUSC& 105	Music Appreciation [H]	5		
MUSC 116	History of Jazz [H]	5		
PHIL& 101	Intro to Philosophy [H]	5		
PHIL 106	Introduction to Logic [H]	5		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHIL 131	World Religions [H]	5		
PHIL 150	Introduction to Ethics [H]	5		
WS 155	Women's Cultural Heritage [H]	5		
WS 215	Women in U.S. History [H]	5		
WS 215 is cross-listed with HIST& 215. A student may not use equivalent cross-listed courses for the same graduation requirement.				
Group B - only one of your three courses may be selected from this group:				
FRCH& 121	French I [H]	5		
FRCH& 122	French II [H]	5		
FRCH& 123	French III [H]	5		
JAPN& 121	Japanese I [H]	5		
JAPN& 122	Japanese II [H]	5		
JAPN& 123	Japanese III [H]	5		
JAPN& 221	Japanese IV [H]	5		
JAPN& 222	Japanese V [H]	5		
JAPN& 223	Japanese VI [H]	5		
SPAN& 121	Spanish I [H]	5		
SPAN& 122	Spanish II [H]	5		
SPAN& 123	Spanish III [H]	5		
SPAN& 221	Spanish IV [H]	5		
SPAN& 222	Spanish V [H]	5		
SPAN& 223	Spanish VI [H]	5		
SPAN 110	Beginning Spanish for Professionals [H]	5		
SPAN 111	Intermediate Spanish for Professionals [H]	5		
SPAN 112	Advanced Spanish for Professionals [H]	5		
SPAN 205	Spanish for Spanish Speakers [H]	5		
SPAN 206	Spanish for Spanish Speakers [H]	5		
SPAN 207	Spanish for Spanish Speakers [H]	5		
	Subtotal	**15**		

Social & Behavioral Sciences *4

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Psychology:				
PSYC& 100	General Psychology [S/B]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
Social Sciences - select a minimum of 5 credits from the following:				
SOC& 101	Intro to Sociology [S/B]	5		
SOC 110	Gender, Media, & Popular Culture [S/B]	5		
SOC 115	Intro to Middle East History & Society [S/B]	5		
SOC 115 is cross-listed with HIST 115. A student may not use equivalent cross-listed courses for the same graduation requirement.				
SOC 150	Marriage, Family, and Relationships [S/B]	5		
SOC 160	Gender Studies [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
SOC 220	Globalization [S/B]	5		
SOC 220 is cross-listed with ICS 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**15**		

Degree & Certificate Requirements

Mathematical & Natural Science *5

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Biology:				
BIOL& 160	General Biology W/ Lab [M/S]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
Chemistry:				
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 122	Intro to Organic Chemistry W/ Lab [M/S]	5		
or				
CHEM& 123	Intro to Biochemistry W/ Lab [M/S]	5		
Nutrition:				
NUTR& 101	Nutrition [M/S]	5		
	Subtotal	**35-38**		

Electives *6

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology [RE]	5		
or				
Any course that meets the elective requirements for the AA degree.		5		
	Subtotal	**5**		
	Total Credits Required	**90-93**		

Graduation Requirements:

- Required minimum 90 credits.
- Required minimum cumulative college-level GPA of 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- Depending on your major, some course choices may be more appropriate than others. Consult with your completion coach or advisor.
- Maximum three credits of PE may be applied.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.
- Refer to Catalog Option Policy for information about using previous degree requirements.
- For individual college requirements, see Provisions on our Transfer Opportunities webpage.

*1

- Walla Walla University requirement: The second English Composition course must be a research writing course. ENGL&102, or equivalent, fulfills this requirement.
- Northwest University: The second English Composition course must be a research writing course. ENGL&102, or equivalent, fulfills this requirement.

*2

- UW Seattle requirement: Requires 5 additional credits in college algebra, pre-calculus, or logic.
- Seattle University requirement: Requires 5 additional credits in college algebra or pre-calculus.

*3

- Washington State University requirement: Requires curriculum that provides students with an understanding of and sensitivity to human diversity. The Humanities distribution area provides an opportunity to meet this requirement. For potential choices go to ucore.wsu.edu/students/courses-and-learning-outcomes/divr.
- Many BSN programs recommend a public speaking course. Students should contact their transfer institution(s) to find out if a public speaking course is preferred.
- Students are encouraged to consult with the transfer institution(s) regarding the humanities courses that best prepare them for a BSN.

*4

- Washington State University requirement: Requires curriculum that provides students with an understanding of and sensitivity to human diversity. The Social Sciences distribution area provides an opportunity to meet this requirement. For potential choices go to ucore.wsu.edu/students/courses-and-learning-outcomes/divr.

- Walla Walla University requirement: Requires a course in General Sociology.
- Northwest University requirement: Requires cultural anthropology and does not accept a course in the sociology discipline as a substitute. Students may be admitted to the BSN without cultural anthropology if they agree to complete the course at the University in the summer prior to the junior year.

*5

- University of Washington requirement: Requires a minimum cumulative GPA of 3.0 for three Natural Sciences courses or a minimum cumulative GPA of 2.8 for four Natural Sciences courses.
- Introductory survey courses or review courses do not meet the content level expectations for the Natural Sciences distribution area.
- Six-credit courses may be used in place of five-credit courses in the Natural Sciences distribution area. Extra credits may apply toward the Electives distribution area.
- Northwest University requirement: Requires 2 credits of genetics. Students may be admitted to the BSN without genetics if they agree to complete the course at the University in the summer prior to the junior year.

*6

- University of Washington requirement: Requires 100 hours of healthcare experience.
- Curriculum that provides students with an understanding of and sensitivity to human diversity is encouraged (required by WSU) and the elective credits provide one opportunity for such a curriculum.

Direct Transfer Agreement (DTA) Information:

For transferring students, 75 of the 90 credits must be fully transferable as defined by the Intercollege Relations Commission (ICRC) guidelines for the Direct Transfer Agreement (DTA) to be honored by four-year institutions in Washington. A maximum of 15 restricted elective [RE] credits may be used. The DTA will fulfill college and university general education requirements only. It may not meet unique institutional requirements, and does not modify admissions criteria for baccalaureate institutions. Upon entry to a baccalaureate institution, a DTA will generally provide a student with at least 90 quarter (60 semester) credits.

Note:

Students should contact their potential transfer institutions regarding the specific course choices in each area where options are listed. Some admission requirements may not be met by this DTA/MRP and transfer institutions may require additional courses before starting the BSN. Students should check with their potential transfer institutions about admission requirements, including overall minimum GPA, a higher GPA in a selected subset of courses, or a specific minimum grade in one or more courses such as math or English. For award of the degree, students must apply to graduate from CBC and have a minimum cumulative GPA of 2.0. Award of the degree does not guarantee admission to a BSN program. At least one-third of the total credits must be taken at CBC.

Admissions application deadlines vary; students must meet the deadline for the university or universities to which they plan to apply for admission to transfer. Although some nursing programs note minimum GPA requirements for nursing prerequisites and other required courses, meeting the minimum requirements does guarantee nursing admission. It is strongly urged for students to check with their transferring institution for GPA requirements.

Certain schools may have additional "university-specific" requirements that are not pre-requisites to admission to the Nursing major but will need to be completed prior to graduation or, as noted above for Northwest University, prior to commencement of nursing courses. Contact with advisors from individual schools for institutional requirements is highly recommended since this DTA may not meet every institution-specific graduation requirement. Northwest University, for example, requires Old Testament and New Testament in the summer prior to beginning nursing classes.

Certain schools may have additional "university-specific" requirements for admission to the institution that are not pre-requisites specifically identified in the DTA requirements. UW Seattle, for example, requires 10 credits of a world language if the applicant has not completed two years of a single language in high school; PLU requires a year of a foreign language at the college level, if two years of high school foreign language has not been completed.

Precision Agriculture Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AG 221	Introduction to Precision Agriculture [RE]	3		
AG 222	Advanced Precision Agriculture W/ Lab [RE]	4		
AG 250	GPS and GIS Applications W/ Lab [RE]	4		
CS 101	Intro to Computers & Information Technology	5		
	Total Credits Required	**16**		

Degree & Certificate Requirements

Precision Machining Technology Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 105	Blueprint Reading [RE]	3		
MT 102	Solidworks(R) I [RE]	4		
MT 202	Solidworks(R) II [RE]	4		
MT 111	Introduction to Manual Machining [RE]	4		
MT 112	Introduction to Manual Machining Lab [RE]	7		
MT 121	Intermediate Manual Machining Techniques [RE]	4		
MT 122	Intermediate Manual Machining Techniques Lab [RE]	7		
MT 131	Advanced Manual Machining [RE]	4		
MT 132	Advanced Manual Machining Lab [RE]	7		
MT 211	Introduction to CNC Machining [RE]	4		
MT 212	Introduction to CNC Machining Lab [RE]	7		
MT 221	Intermediate CNC Machining and Programming [RE]	4		
MT 222	Intermediate CNC Machining and Programming Lab [RE]	7		
MT 231	Advanced CNC Machining Technologies [RE]	4		
MT 232	Advanced CNC Machining Technologies Lab [RE]	7		
	Subtotal	**77**		

Major Support

Select 0 to 6 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
WT 222	Gas Tungsten Arc Welding (Tig) [RE]	3		
WT 251	Gas Metal Arc Welding (Mig) Certificate [RE]	3		
	Subtotal	**0-6**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Mathematics - 5 credits				
MATH 100	Algebraic Tools for Vocational Application [RE]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
ENGL& 235	Technical Writing [C]	5		
Human Relations - select 3 to 5 credits from the following:				
PSYC 103	Applied Psychology	3		
PSYC& 100	General Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
BUS 271	Human Relations in Business [RE]	5		
Communication - select 3 to 5 credits from the following:				
CMST 103	Workplace Communication [RE]	3		
CMST 104	Speech Essentials [C]	3		
CMST 110	Communication Behavior [C]	3		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**16-20**		
	Total Credits Required	**93-103**		

Students must earn a minimum 2.0 grade in all MT and BPR courses.
Required minimum cumulative GPA 2.0.

Degree & Certificate Requirements

Programming and Software Development Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 101	Intro to Computers & Information Technology	5		
CS 102	Programming Fundamentals [M/S]	5		
or				
CS& 131	Computer Science I C++ [M/S]	5		
CS 106	Database Systems	5		
CS 117	Computer Ethics	2		
CS 118	Customer Service [RE]	3		
CS 150	Computer Security [RE]	5		
CS 228	Windows Server [RE]	5		
	Subtotal	**30**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS& 141	Computer Science I Java [M/S]	5		
CS 162	C++2 [RE]	5		
or				
CS 202	Programming Fundamentals 2 [RE]	5		
CS 236	Advanced Object Oriented Programming [RE]	5		
CS 250	HTML5-JavaScript/JQuery	5		
CS 262	Game Programming Design and Development [RE]	5		
Select 15 credits from the following:				
CS 123	PC Hardware [RE]	5		
or				
CS 127	Windows Configuration [RE]	5		
CS 206	Database Design [RE]	5		
CS 221	SQL Server Administration [RE]	5		
CS 225	SQL Programming [RE]	5		
CS 260	Data Structures In C++ [RE]	5		
	Subtotal	**40**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Mathematics - select 5 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Psychology or Sociology - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
Any PSYC course higher than 100		5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
Communication - select 5 to 6 credits from the following:				
CMST 104	Speech Essentials [C]	3		
CMST 110	Communication Behavior [C]	3		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**20-21**		
	Total Credits Required	**90-91**		

Note:

Combination of CA 120, CA 140, CA 150 and CA 160 can be substituted as equivalent for CS 101 for a total of 5 credits counted towards the degree. Classes/ credits used for substitution cannot be used to fulfill other requirements.

Students must receive a minimum grade of 2.5 or pass (P) in all CS courses.

Degree & Certificate Requirements

Project Management Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management [RE]	5		
PROJ 110	Project Planning [RE]	5		
PROJ 150	Agile Project Management [RE]	5		
PROJ 130	Introduction to Microsoft Project [RE]	5		
PROJ 211	Project Procurement [RE]	5		
PROJ 222	Project Quality Management [RE]	5		
PROJ 230	Emotional Intelligence & Communication [RE]	5		
PROJ 231	Project Risk Management [RE]	5		
PROJ 241	Project Management Capstone [RE]	5		
	Subtotal	**45**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS& 101	Introduction to Business [S/B]	5		
BUS 271	Human Relations in Business [RE]	5		
SOC 220	Globalization [S/B]	5		
SOC 220 is cross-listed with ICS 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
CS 101	Intro to Computers & Information Technology	5		
Business/Project Management - Select 5 credits from the following:				
BUS& 201	Business Law	5		
BUS 222	Advanced Microsoft Excel [RE]	5		
BUS 250	Management Information Systems	5		
BUS 262	Management Principles [RE]	5		
BUS 265	Marketing Principles [RE]	5		
PROJ 170	Project Management Internship [RE]	1–5		
PROJ 240	Emerging Project Management Practices [RE]	5		
PROJ 270	Project Management Internship [RE]	1–5		
	Subtotal	**25**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Mathematics - Select 5 credits from the following:				
MATH& 107	Math In Society [M/S] [Q/SR]	5		
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH 147	Finite Math [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Social & Behavioral Sciences - Select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Communication - select 5 credits from the following:				
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**20**		
	Total Credits Required	**90**		

Note:

- Students must receive a minimum 2.0 grade in all Project Management (PROJ) courses.
- Required minimum cumulative GPA 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or faculty advisor.

Degree & Certificate Requirements

Project Management Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

BAS degrees require a minimum of 60 credits of 300- and 400-level courses

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - 20 credits:				
ENGL& 101	English Composition I [C]	5		
ENGL 410	Professional & Organizational Communication [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
or				
CMST& 220	Public Speaking [C]	5		
or				
CMST 260	Multicultural Communication [C]	5		
CMST 415	Applied Professional Communication	5		
Quantitative/Symbolic Reasoning - select 5 credits from the following:				
MATH& 107	Math In Society [M/S] [Q/SR]	5		
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH 147	Finite Math [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Humanities - 10 credits:				
ICS 310	American Diversity [H]	5		
PHIL 305	Professional Ethics [H]	5		
Social & Behavioral Sciences - 10 credits:				
ECON 305	Managerial Economics [S/B]	5		
SOC 220	Globalization [S/B]	5		
SOC 220 is cross-listed with ICS 220. A student may not use equivalent cross-listed courses for the same graduation requirement.				
Social & Behavioral Sciences - select 5 additional credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Mathematical & Natural Science* - select 10 credits from the following:				
ENVS 310	Environmental Issues [M/S]	5		
Natural Science w/ Lab		5		
	Subtotal	**60**		

Degree & Certificate Requirements

Major Courses**

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management [RE]	5		
PROJ 110	Project Planning [RE]	5		
PROJ 150	Agile Project Management [RE]	5		
PROJ 130	Introduction to Microsoft Project [RE]	5		
PROJ 211	Project Procurement [RE]	5		
PROJ 222	Project Quality Management [RE]	5		
PROJ 230	Emotional Intelligence & Communication [RE]	5		
PROJ 231	Project Risk Management [RE]	5		
PROJ 241	Project Management Capstone [RE]	5		
BUS& 101	Introduction to Business [S/B]	5		
BUS 271	Human Relations in Business [RE]	5		
CS 101	Intro to Computers & Information Technology	5		
Business/Project Management - Select 5 credits from the following:				
BUS& 201	Business Law	5		
BUS 222	Advanced Microsoft Excel [RE]	5		
BUS 250	Management Information Systems	5		
BUS 262	Management Principles [RE]	5		
BUS 265	Marketing Principles [RE]	5		
PROJ 170	Project Management Internship [RE]	1–5		
PROJ 240	Emerging Project Management Practices [RE]	5		
PROJ 270	Project Management Internship [RE]	1–5		
PROJ 370	Project Management Internship	1–5		
PROJ 470	Project Management Internship	1–5		
	Subtotal	**65**		

Available concentrations: General or Construction
Choose one concentration from below:

General

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 310	Project Contracts & Legal Issues	5		
PROJ 320	Project Monitoring, Control, & Earned Value	5		
PROJ 411	Advanced Microsoft Project	5		
PROJ 430	Leadership and Human Resources	5		
PROJ 480	Advanced Project Management Capstone	5		
AMGT 300	Cross-Cultural Logistics and Global Management	5		
General Electives - select 25 credits from the following:				
AMGT 301	Contemporary Issues in Business & Management	5		
AMGT 302	Leadership & Tactical Management	5		
AMGT 303	Human Resources and Organizational Culture	5		
AMGT 303 is cross-listed with HCAD 303. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 306	Business Planning and Strategy	5		
AMGT 402	Information & Data Analytics	5		
AMGT 402 is cross-listed with AG 402, HCAD 402, and NRS 315. A student may not use equivalent cross-listed courses for the same graduation requirement.				
PROJ 340	Advanced Emerging Project Management Practices	5		
	Subtotal	**55**		

Construction

See program advisor for additional information

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMGT 300	Cross-Cultural Logistics and Global Management	5		
AMGT 302	Leadership & Tactical Management	5		
PROJ 310	Project Contracts & Legal Issues	5		
PROJ 320	Project Monitoring, Control, & Earned Value	5		
PROJ 411	Advanced Microsoft Project	5		
PROJ 430	Leadership and Human Resources	5		
PROJ 480	Advanced Project Management Capstone	5		
ENT 111	Introduction to Engineering [RE]	5		
ENT 114	Introduction to Drafting [RE]	4		
ENT 122	Materials [RE]	3		
ENT 128	Architecture & Engineering Blueprint Reading [RE]	2		
ENT 219	Construction Estimating [RE]	1		
ENT 229	Construction Specifications [RE]	2		
BUS 250	Management Information Systems	5		
	Subtotal	**57**		
	Total Credits Required	**180-182**		

Note:

*Course selections must meet the distribution requirements for the BAS degree.

**Course credits used for major courses should be discussed with your completion coach or faculty advisor.

- Students must earn a minimum 2.0 grade in all Project Management (PROJ) courses.
- Required minimum cumulative GPA 2.0.
- Minimum grade per distribution course 2.0.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or faculty advisor.

Project Management One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management [RE]	5		
PROJ 110	Project Planning [RE]	5		
PROJ 150	Agile Project Management [RE]	5		
PROJ 130	Introduction to Microsoft Project [RE]	5		
CS 101	Intro to Computers & Information Technology	5		
	Subtotal	**25**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Mathematics - select 5 credits from the following:				
MATH& 107	Math In Society [M/S] [Q/SR]	5		
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH 147	Finite Math [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Social & Behavioral Sciences - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Communication - select 5 credits from the following:				
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**20**		
	Total Credits Required	**45**		

Note:

- Students must receive minimum 2.0 grade in all Project Management (PROJ) courses.
- Required minimum cumulative GPA 2.0.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or faculty advisor.

Radiologic Technology Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHYS& 110	Physics for Non-Science Majors W/ Lab [M/S]	5		
RATEC 102	Radiographic Physics [RE]	5		
RATEC 103	Principles of Radiographic Exposure [RE]	3		
RATEC 104	Advanced Radiographic Procedures [RE]	3		
RATEC 105	Introduction to Radiographic Technique [RE]	2		
RATEC 106	Computed Imaging [RE]	2		
RATEC 107	Positioning and Related Anatomy I [RE]	3		
RATEC 108	Positioning and Related Anatomy II [RE]	3		
RATEC 109	Positioning and Related Anatomy III [RE]	3		
RATEC 111	Clinical Education I [RE]	5		
RATEC 112	Clinical Education II [RE]	5		
RATEC 113	Clinical Education IV [RE]	13		
RATEC 120	Nursing Procedures [RE]	2		
RATEC 121	Patient Care [RE]	2		
RATEC 127	Introduction to Sectional Anatomy [RE]	2		
RATEC 207	Concept Integration [RE]	2		
RATEC 210	Clinical Education III [RE]	13		
RATEC 212	Clinical Education V [RE]	8		
RATEC 213	Clinical Education VI [RE]	8		
RATEC 220	Pathology I [RE]	3		
RATEC 221	Pathology II [RE]	2		
RATEC 240	Radiation Biology and Protection [RE]	3		
RATEC 296	Special Topics In Radiology [RE]	2		
	Subtotal	**99**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
HSCI 147	Medical Terminology [RE]	5		
	Subtotal	**15-17**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PSYC& 100	General Psychology [S/B]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Mathematics - select 5 credits from the following:				
MATH& 107	Math In Society [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH&141+	MATH&141 or above	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**20**		
	Total Credits Required	**134-136**		

Note:
A minimum 2.0 grade is required in all Major Support and General Education courses. A minimum 2.5 grade is required in all Major courses.

Degree & Certificate Requirements

Respiratory Therapy Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
RT 301	Fundamentals of Respiratory Care I	8		
RT 311	Fundamentals of Respiratory Care I Lab	3		
RT 302	Cardiopulmonary Anatomy & Physiology	6		
RT 303	Fundamentals of Respiratory Care II	8		
RT 313	Fundamentals of Respiratory Care II Lab	3		
RT 304	Respiratory Therapy Pharmacology	6		
RT 305	Fundamentals of Respiratory Care III	6		
RT 315	Fundamentals of Respiratory Care III Lab	3		
RT 306	Advanced Respiratory Pathophysiology	3		
RT 327	Respiratory Therapy Clinical I	4		
RT 401	Fundamentals of Respiratory Care IV	5		
RT 411	Fundamentals of Respiratory Care IV Lab	3		
RT 402	Electrocardiography	2		
RT 412	Electrocardiography Lab	1		
RT 423	Respiratory Therapy Clinical II	3		
RT 403	Fundamentals of Respiratory Care V	6		
RT 413	Fundamentals of Respiratory Care V Lab	3		
RT 424	Respiratory Therapy Clinical III	8		
RT 405	Respiratory Therapy Capstone Project	4		
RT 426	Respiratory Therapy Clinical IV	8		
RT 407	Professional Credentialing Preparation	4		
RT 428	Respiratory Therapy Clinical V	8		
	Subtotal	**105**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
CHEM& 121	Intro to Chemistry W/ Lab [M/S]	5		
CHEM& 122	Intro to Organic Chemistry W/ Lab [M/S]	5		
HSCI 147	Medical Terminology [RE]	5		
	Subtotal	**30-33**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
SOC 334	Sociology of Health and Illness	5		
ENGL 315	Writing for Health Professionals [C]	5		
or				
CMST 320	Health Communication	5		
English - Select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
Quantitative/Symbolic Reasoning - 5 credits:				
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
Humanities - 10 credits:				
PHIL 315	Professional Ethics In Healthcare [H]	5		
ICS 310	American Diversity [H]	5		
or				
ICS 320	Culture and Health [H]	5		
Social & Behavioral Sciences - 10 credits:				
ECON 315	Economics of Healthcare [S/B]	5		
PSYC& 100	General Psychology [S/B]	5		
or				
PSYC& 200	Lifespan Psychology [S/B]	5		
	Subtotal	**45**		
	Total Credits Required	**180-183**		

Students must earn a minimum 2.0 grade in all Major courses.

Degree & Certificate Requirements

Software Development Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 101	Intro to Computers & Information Technology	5		
CS 102	Programming Fundamentals [M/S]	5		
or				
CS& 131	Computer Science I C++ [M/S]	5		
CS 106	Database Systems	5		
CS 117	Computer Ethics	2		
CS 150	Computer Security [RE]	5		
CS 228	Windows Server [RE]	5		
Select 3 to 6 credits from the following:				
CS 118	Customer Service [RE]	3		
CS 217	Internship [RE]	1–3		
	Subtotal	**30-33**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS& 141	Computer Science I Java [M/S]	5		
CS 162	C++2 [RE]	5		
or				
CS 202	Programming Fundamentals 2 [RE]	5		
CS 206	Database Design [RE]	5		
CS 135	Cloud Fundamentals [RE]	5		
CS 225	SQL Programming [RE]	5		
CS 231	Network Infrastructure [RE]	5		
CS 236	Advanced Object Oriented Programming [RE]	5		
CS 250	HTML5-JavaScript/JQuery	5		
	Subtotal	**40**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL& 101	English Composition I [C]	5		
Mathematics - select 5 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Psychology or Sociology - select 5 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
Any PSYC course higher than 100		5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC& 201	Social Problems [S/B]	5		
Communication - select 5 to 6 credits from the following:				
CMST 104	Speech Essentials [C]	3		
CMST 110	Communication Behavior [C]	3		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**20-21**		
	Total Credits Required	**90-94**		

Note:

Combination of CA 120, CA 140, CA 150 and CA 160 can be substituted as equivalent for CS 101 for a total of 5 credits counted towards the degree. Classes/ credits used for substitution cannot be used to fulfill other requirements.

Students must receive a minimum grade of 2.5 or pass (P) in all CS courses.

Software Development Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

BAS degrees require a minimum of 60 credits of 300- and 400-level courses

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 101	Intro to Computers & Information Technology	5		
CS 102	Programming Fundamentals [M/S]	5		
or				
CS& 131	Computer Science I C++ [M/S]	5		
CS 106	Database Systems	5		
CS 117	Computer Ethics	2		
CS 135	Cloud Fundamentals [RE]	5		
CS& 141	Computer Science I Java [M/S]	5		
CS 150	Computer Security [RE]	5		
CS 162	C++2 [RE]	5		
or				
CS 202	Programming Fundamentals 2 [RE]	5		
CS 206	Database Design [RE]	5		
CS 225	SQL Programming [RE]	5		
CS 228	Windows Server [RE]	5		
CS 231	Network Infrastructure [RE]	5		
CS 236	Advanced Object Oriented Programming [RE]	5		
CS 250	HTML5-JavaScript/JQuery	5		
CS 301	Introduction to Information Systems	5		
CS 316	Cloud Computing HTML5 and PHP	5		
CS 321	Python for Data Processing	5		
CS 331	Big Data Analysis	5		
CS 401	Software Analysis and Design	5		
CS 411	Agile Methodology & ePortfolio Planning	5		
CS 416	Data Visualization	5		
CS 417	Contemporary Topics in Computer Science	5		
CS 421	Software Development Capstone	5		
Select 3 to 6 credits from the following:				
CS 118	Customer Service [RE]	3		
CS 217	Internship [RE]	1–3		
	Subtotal	**115-118**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management [RE]	5		
	Subtotal	**5**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication - 15 credits:				
ENGL& 101	English Composition I [C]	5		
ENGL 410	Professional & Organizational Communication [C]	5		
CMST 415	Applied Professional Communication	5		
Quantitative/Symbolic Reasoning - select 5 credits from the following:				
MATH& 141	Precalculus I [M/S] [Q/SR]	5		
MATH& 142	Precalculus II [M/S] [Q/SR]	5		
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
MATH& 148	Business Calculus [M/S] [Q/SR]	5		
MATH& 151	Calculus I [M/S] [Q/SR]	5		
MATH& 152	Calculus II [M/S] [Q/SR]	5		
MATH& 153	Calculus III [M/S] [Q/SR]	5		
Humanities -10 credits:				
ICS 310	American Diversity [H]	5		
PHIL 305	Professional Ethics [H]	5		
Social & Behavioral Sciences - 10 credits:				
SOC 305	Cybercrime: A Sociological Perspective [S/B]	5		
ECON 305	Managerial Economics [S/B]	5		
Mathematical & Natural Science* - select 10 credits from the following:				
Choose any course from this distribution		5		
Choose a lab science from this distribution		5		
Electives – select 10 credits from the following distribution areas. Check with your program advisor for recommended elective courses from Communication, Quantitative/Symbolic Reasoning, Social & Behavioral Sciences, Humanities, and Mathematical & Natural Science distributions.				
		5		
		5		
	Subtotal	**60**		
	Total Credits Required	**180-183**		

Note:

*Course selections must meet the distribution requirements for the BAS degree.

- Students must earn a minimum 2.0 grade in all 300-400 level CS courses.
- Students must earn a minimum 2.5 grade or pass (P) in all 100-200 level CS courses.
- Required minimum 180 credits.
- Required minimum cumulative GPA 2.0.
- Combination of CA 120, CA 140, CA 150 and CA 160 can be substituted as equivalent for CS 101 for a total of 5 credits counted towards the degree. Classes and credits used for substitution cannot be used to fulfill other requirements.
- A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or advisor.

Solid Modeling for Manufacturing Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MT 102	Solidworks(R) I [RE]	4		
MT 202	Solidworks(R) II [RE]	4		
BPR 105	Blueprint Reading [RE]	3		
	Total Credits Required	**11**		

Spanish Medical Interpreting Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
INTP 101	Introduction to the Interpreting Profession [RE]	5		
INTP 102	Medical Terminology for Interpreters I [RE]	5		
INTP 103	Consecutive Interpreting I [RE]	5		
INTP 104	Medical Terminology for Interpreters II [RE]	5		
INTP 201	Modes of Interpreting [RE]	5		
INTP 202	Consecutive Interpreting II [RE]	5		
	Total Credits Required	**30**		

Students must earn a minimum 1.5 grade in INTP 101, INTP 102, INTP 103, INTP 104 courses, and a minimum 2.5 grade in INTP 201, INTP 202 courses.

Degree & Certificate Requirements

State Early Childhood Education One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED& 105	Intro to Early Childhood Education [RE]	5		
ECED& 107	Health/Safety/Nutrition [RE]	5		
EDUC& 115	Child Development [S/B]	5		
ECED& 120	Practicum-Nurturing Relationships [RE]	2		
EDUC& 130	Guiding Behavior [RE]	3		
or				
ECED& 170	Environments for Young Children [RE]	3		
EDUC& 150	Child/Family/Community [RE]	3		
ECED& 160	Curriculum Development [RE]	5		
ECED& 180	Language & Literacy Development [RE]	3		
ECED& 190	Observation/Assessment [RE]	3		
	Subtotal	**34**		

Major Support

Select 3 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EDUC& 130	Guiding Behavior [RE]	3		
ECED& 132	Infants & Toddlers--Nurturing Care [RE]	3		
ECED& 134	Family Child Care Management [RE]	3		
EDUC& 136	School Age Care [RE]	3		
ECED& 138	Home Visitor/Family Engagement [RE]	3		
ECED& 139	Administration of ECE [RE]	3		
	Subtotal	**3**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Mathematics - select 5 credits from the following:				
MATH 100+	MATH 100 or above	5		
MATH& 171	Math for Elementary Education I [M/S]	5		
Note: MATH& 171 recommended for BAS path				
	Subtotal	**10**		
	Total Credits Required	**47**		

Note:

It is important to stay in close contact with your ECE advisor. More information can be obtained from the Early Childhood Education office at 542-4640.

State Initial Early Childhood Education Short-Term Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED& 105	Intro to Early Childhood Education [RE]	5		
ECED& 107	Health/Safety/Nutrition [RE]	5		
ECED& 120	Practicum-Nurturing Relationships [RE]	2		
	Total Credits Required	**12**		

Degree & Certificate Requirements

State Short Early Childhood Education Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED& 105	Intro to Early Childhood Education [RE]	5		
ECED& 107	Health/Safety/Nutrition [RE]	5		
EDUC& 115	Child Development [S/B]	5		
ECED& 120	Practicum-Nurturing Relationships [RE]	2		
	Subtotal	**17**		

Available specializations: General, Infant/Toddler Care, School-Age Care, Family Child Care, Home Visitor/Family Engagement or Administration
Choose one specialization from below:

Specialization - General

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EDUC& 130	Guiding Behavior [RE]	3		
	Subtotal	**3**		
	Total Credits Required	**20**		

Specialization - Infant/Toddler Care

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED& 132	Infants & Toddlers--Nurturing Care [RE]	3		
	Subtotal	**3**		
	Total Credits Required	**20**		

Specialization - School-Age Care

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EDUC& 136	School Age Care [RE]	3		
	Subtotal	**3**		
	Total Credits Required	**20**		

Specialization - Family Child Care

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED& 134	Family Child Care Management [RE]	3		
	Subtotal	**3**		
	Total Credits Required	**20**		

Specialization - Home Visitor/Family Engagement

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED& 138	Home Visitor/Family Engagement [RE]	3		
	Subtotal	**3**		
	Total Credits Required	**20**		

Specialization - Administration

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED& 139	Administration of ECE [RE]	3		
	Subtotal	**3**		
	Total Credits Required	**20**		

Sterile Processing Technician Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
SPT 100	Foundations of Sterile Processing [RE]	6		
SPT 150	Sterile Processing Clinical [RE]	12		
	Subtotal	**18**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology [RE]	5		
	Subtotal	**5**		
	Total Credits Required	**23**		

Substance Use Disorder Professional One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 201	Foundations of Addiction & Substance Use Disorders [RE]	5		
HSCI 202	Treatment Methods and Counseling Techniques [RE]	5		
HSCI 203	Cultural Competence in Substance Use Disorder Counseling [RE]	5		
HSCI 204	Clinical Skills for Substance Use Disorders [RE]	5		
HSCI 205	Professional Ethics and Law in Substance Use Disorder Counseling [RE]	5		
HSCI 206	Psychopathology and Relapse Prevention [RE]	5		
HSCI 207	Case Management and Community Education [RE]	5		
PSYC& 200	Lifespan Psychology [S/B]	5		
PSYC& 220	Psychological Disorders [S/B]	5		
	Subtotal	**45**		
	Total Credits Required	**45**		

Graduation Requirements:

- Required minimum 2.0 grade in all courses required for the SUDP Certificate.

Degree & Certificate Requirements

Surgical Technology Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
SURG 101	Introduction to Surgical Technology [RE]	4		
SURG 111	Introduction to Surgical Technology Lab [RE]	3		
SURG 102	Perioperative Science [RE]	5		
SURG 112	Perioperative Science Lab [RE]	2		
SURG 103	Perioperative Patient Care [RE]	2		
SURG 113	Perioperative Patient Care Lab [RE]	1		
SURG 106	Surgical Pharmacology and Anesthesia [RE]	4		
SURG 107	Surgical Procedures I [RE]	8		
SURG 117	Surgical Procedures Lab [RE]	3		
SURG 118	Advanced Surgical Skills Lab [RE]	2		
SURG 206	Professional Development [RE]	2		
SURG 207	Surgical Procedures II [RE]	8		
SURG 208	Certification Preparation [RE]	4		
SURG 223	Operating Room Practicum I [RE]	8		
SURG 224	Operating Room Practicum II [RE]	8		
	Subtotal	**64**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology [RE]	5		
BIOL& 241	Human A&P 1 W/ Lab [M/S]	5-6		
BIOL& 242	Human A&P 2 W/ Lab [M/S]	5-6		
BIOL& 260	Microbiology W/ Lab [M/S]	5-6		
	Subtotal	**20-23**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH& 146	Introduction to Stats [M/S] [Q/SR]	5		
PSYC& 100	General Psychology [S/B]	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
ENGL& 235	Technical Writing [C]	5		
Communication - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**20**		
	Total Credits Required	**104-107**		

Teacher Education Bachelor of Applied Science (BAS)

2026-2027 Degree Requirements

BAS degrees require a minimum of 60 credits of 300- and 400-level courses

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED 103	Art [RE]	3		
ECED& 105	Intro to Early Childhood Education [RE]	5		
ECED& 107	Health/Safety/Nutrition [RE]	5		
EDUC& 115	Child Development [S/B]	5		
ECED& 120	Practicum-Nurturing Relationships [RE]	2		
ECED 122	Math & Science [RE]	3-5		
ECED 124	Children's Literature [RE]	3		
EDUC& 130	Guiding Behavior [RE]	3		
ECED& 132	Infants & Toddlers--Nurturing Care [RE]	3		
EDUC& 150	Child/Family/Community [RE]	3		
ECED 151	Field Experience Seminar [RE]	3		
ECED 152	Field Experience [RE]	1		
ECED& 160	Curriculum Development [RE]	5		
ECED& 170	Environments for Young Children [RE]	3		
ECED& 180	Language & Literacy Development [RE]	3		
ECED& 190	Observation/Assessment [RE]	3		
EDUC& 203	Exceptional Child [RE]	3		
ECED 300	Social Studies for Teachers	5		
ECED 301	Inquiry Based Science for Teachers	3		
ECED 307	Health and Physical Education Learning Standards	2		
ECED 325	Advanced Math Methods	3		
EDUC 330	Anti-Bias Education	5		
EDUC 340	Equitable Inclusion for Multilingual Learners	5		
ECED 340	Assessment and Evaluation	5		
EDUC 350	Portfolio and Professional Assessment	5		
EDUC 360	Introduction to Special Education	5		
ECED 365	Observations, Documentation, and Monitoring	3		
EDUC 370	Professionalism, Collaboration, and Classroom Leadership	2		
ECED 370	Adaptations, Modifications, and Planning	5		
ECED 385	Advanced Language and Literacy Methods	3		
ECED 395	Equity and Social Justice	3		
EDUC 401	Reflective Seminar I	1		
EDUC 402	Reflective Seminar II	1		
EDUC 403	Reflective Seminar III	3		
EDUC 411	Student Teaching I	4		
EDUC 412	Student Teaching II	10		
EDUC 413	Student Teaching III	2		
	Subtotal	**131-133**		

Degree & Certificate Requirements

Major Support

A total of 15 credits required in the major support area. A maximum of 6 credits of ECED Special Studies Lab will be accepted. Other electives may include ECED, EDUC, Humanities or Social Science courses (with prior approval).

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		5		
	Subtotal	**15**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
English - 10 credits:				
ENGL& 101	English Composition I [C]	5		
ENGL& 102	Composition II [C]	5		
Communication Studies - select 5 credits from the following:				
CMST& 101	Introduction to Communication Studies [C]	5		
CMST& 210	Interpersonal Communication [C]	5		
CMST& 220	Public Speaking [C]	5		
CMST 260	Multicultural Communication [C]	5		
Social Sciences - select 10 credits from the following:				
PSYC& 100	General Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Humanities - 10 additional credits:				
ICS 310	American Diversity [H]	5		
PHIL 305	Professional Ethics [H]	5		
Mathematics - 10 credits:				
MATH& 171	Math for Elementary Education I [M/S]	5		
MATH& 172	Math for Elementary Education II [M/S] [Q/SR]	5		
	Subtotal	**45**		
	Total Credits Required	**191-193**		

A student may not use equivalent cross-listed courses for the same graduation requirement. Refer to the Cross-Listed Courses section of the catalog for more information, and consult with your completion coach or faculty advisor.

Degree & Certificate Requirements

Welding Technology Associate of Applied Science (AAS)

PROFESSIONAL TECHNICAL

2026-2027 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 106	Blueprint Reading I (WT) [RE]	5		
BPR 206	Blueprint Reading II (WT) [RE]	3		
DRW 106	Mechanical Drawing for Vocational Application [RE]	3		
WT 101	Oxy-Acetylene Process [RE]	1		
WT 103	Fundamentals Major Processes & Their Consumables [RE]	5		
WT 107	Fabrication Principles Review [RE]	4		
WT 108	Fabrication Technique I [RE]	1		
WT 111	Oxy-Acetylene Process Lab [RE]	3		
WT 112	Introduction to Shield Metal Arc Welding [RE]	9-10		
WT 113	Advanced Shield Metal Arc Welding [RE]	9-10		
WT 141	Shield Metal Arc Welding Certification [RE]	9-10		
WT 181	Fabrication Techniques I Lab [RE]	3		
WT 201	Weldability of Metals [RE]	5		
WT 202	Welding Inspection [RE]	5		
WT 222	Gas Tungsten Arc Welding (Tig) [RE]	9-10		
WT 208	Fabrication Technique II [RE]	1		
WT 281	Fabrication Technique II Lab [RE]	3		
	Subtotal	**78-82**		

Available Specializations: Pipe Welding and Structural Welding. Choose one Specialization from below:

Specialization - Pipe Welding

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
WT 211	Introduction to Pipe Welding [RE]	9-10		
WT 231	Pipe Welding Certification [RE]	9-10		
	Subtotal	**18-20**		

Specialization - Structural Welding

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
WT 251	Gas Metal Arc Welding (Mig) Certificate [RE]	9-10		
WT 255	Structural Certification [RE]	9-10		
	Subtotal	**18-20**		

Major Support

Select 0 to 3 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
WT 195	Supervised Employment [RE]	1-3		
	Subtotal	**0-3**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH 100+	MATH 100 or above	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
Human Relations - select 3 to 5 credits from the following:				
PSYC 103	Applied Psychology	3		
PSYC& 100	General Psychology [S/B]	5		
BUS 271	Human Relations in Business [RE]	5		
Communication - select 3 credits from the following:				
CMST 103	Workplace Communication [RE]	3		
CMST 110	Communication Behavior [C]	3		
	Subtotal	**16-18**		
	Total Credits Required	**112-123**		

Note:

Students must earn a minimum 2.0 grade in all Major Courses and Specialization.

Required minimum cumulative GPA 2.0

WT 112, 113, 141, 211, 222, 231, 251, and 255 are variable credit courses. Variable credit courses taken of the same class in the evening must be completed within four consecutive quarters.

Welding Technology Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 106	Blueprint Reading I (WT) [RE]	5		
WT 101	Oxy-Acetylene Process [RE]	1		
WT 103	Fundamentals Major Processes & Their Consumables [RE]	5		
WT 107	Fabrication Principles Review [RE]	4		
WT 111	Oxy-Acetylene Process Lab [RE]	3		
WT 112	Introduction to Shield Metal Arc Welding [RE]	9-10		
WT 113	Advanced Shield Metal Arc Welding [RE]	9-10		
	Subtotal	**36-38**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
DRW 106	Mechanical Drawing for Vocational Application [RE]	3		
	Subtotal	**0-3**		
	Total Credits Required	**36-41**		

Note:

Students must earn a minimum 2.0 grade in all Major Courses

Required minimum cumulative GPA 2.0.

WT 112 and 113 are variable credit courses. Variable credit courses taken of the same class in the evening must be done within four consecutive quarters.

Welding Technology One-Year Certificate

PROFESSIONAL TECHNICAL

2026-2027 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 106	Blueprint Reading I (WT) [RE]	5		
DRW 106	Mechanical Drawing for Vocational Application [RE]	3		
WT 101	Oxy-Acetylene Process [RE]	1		
WT 103	Fundamentals Major Processes & Their Consumables [RE]	5		
WT 107	Fabrication Principles Review [RE]	4		
WT 108	Fabrication Technique I [RE]	1		
WT 111	Oxy-Acetylene Process Lab [RE]	3		
WT 112	Introduction to Shield Metal Arc Welding [RE]	9-10		
WT 113	Advanced Shield Metal Arc Welding [RE]	9-10		
WT 141	Shield Metal Arc Welding Certification [RE]	9-10		
WT 181	Fabrication Techniques I Lab [RE]	3		
	Subtotal	**52-55**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH 100+	MATH 100 or higher	5		
English - select 5 credits from the following:				
ENGL& 101	English Composition I [C]	5		
ENGL 103	Writing In The Workplace [RE]	5		
	Subtotal	**10**		
	Total Credits Required	**62-65**		

Note:

Students must earn a minimum 2.0 grade in all Major Courses.

Required minimum cumulative GPA 2.0

WT 112, 113 and 141 are variable credit courses. Variable credit courses taken of the same class in the evening must be done within four consecutive quarters.

Department Overviews

ACCT Accounting

Columbia Basin College offers transfer accounting courses, a two-year occupational degree and a one-year occupational certificate in accounting. The Accounting program is designed to provide students with knowledge in accounting, business, computers and general education to become employed in entry-level accounting positions. The main goal of the program is to provide students with both the theory of accounting and practical experience to perform computerized accounting functions.

Upon completion of the program, students will be able to:

- Apply core accounting concepts and terminology
- Integrate accounting concepts in a simulated business environment
- Create journal entries from financial data
- Develop financial statements and other reports from financial data
- Evaluate financial statements and other reports to inform business decisions
- Model professionalism and cultural awareness in various business situations
- Analyze business reports
- Synthesize ideas to communicate professionally
- Execute accounting functions, including data analysis using technology
- Formulate cost behavior analyses that enhance organizational decision-making

ASL& American Sign Language

The American Sign Language department offers courses designed to develop proficiency in ASL and deepen the understanding of Deaf culture. ASL courses provide students with foundational skills in sign language communication, emphasizing expressive and receptive abilities, grammar and cultural norms. These courses are ideal for students pursuing careers in fields such as education, health care, social work and public service, where communication with Deaf individuals is a valuable asset. Mastery of ASL enhances students' cultural competence and expands their ability to engage with diverse communities in professional and personal settings.

AOT Administrative Office Technology

Administrative Office Technology (AOT) provides students with coursework to support positions in various and often specialized types of office environments. Students complete realistic, hands-on office assignments and develop skills in communication, business procedures, research, and clerical tasks.

Students graduating with an Administrative Assistant Short-Term Certificate will be able to:

- Apply interpersonal, communication, and organizational skills to effectively navigate office environments.
- Utilize Microsoft Office applications (Word, Excel, PowerPoint, and Outlook) to efficiently create documents, manage data, prepare presentations, and coordinate communications in an office setting.

ABE Adult Basic Education

Adult Basic Education (ABE) consists of three main areas of focus: GED® test preparation, High School+ coursework and ABE classes. These classes serve the adult community and are available on the Pasco campus, located in the Transitional Studies department, and online.

We offer classes in English Language Arts, Math, Social Studies and Science. Depending on the program in which the student enrolls in, it may require a formal assessment using CASAS.

Our courses serve the needs of adult students seeking a high school equivalency diploma and preparing for college coursework. GED® is a registered trademark of the American Council on Education (ACE) and administered exclusively by GED® Testing Service LLC under license. This material [or content] is not endorsed or approved by ACE or GED® Testing Service.

AFS Agricultural Food Systems

Agri-Food Systems give you a broad, interdisciplinary understanding of agriculture. The program prepares not only aspiring growers of crops, but also students who are interested in related industries, such as global marketing, direct marketing or food production to contribute to the changing field of agriculture.

AG Agriculture

If you are interested in the science of food and fiber production, plant science, insects, business or animal production, Agriculture could be the field for you. Agriculture is the science of the food and fiber industry. Courses are designed to provide the student with a deeper understanding of the foundational science of modern agriculture. Courses in agriculture are also offered under Biology, Horticulture and Agricultural Food Systems in this field. Several degree and certificate options are available in this area including:

- Associate in Arts and Sciences DTA with pathways in Agriculture or Crop and Soil Science. These pathways are designed to transfer to a four-year university for further education in agriculture and related fields.
- Associate in Applied Science in Agriculture Production or Agribusiness. These degrees are designed to prepare a student for employment directly after degree completion in an agriculture field. Certificates imbedded in the AAS in Crop Production include:
  - Hydroponics and Greenhouse Management
  - Crop and Soil Science
  - Precision Agriculture
- Bachelor of Applied Management with an Emphasis in Agriculture is designed for students who have earned an AAS degree but require further business related education.

ANTH Anthropology

The Anthropology department is committed to exploring the diversity of human cultures, societies, biology and behaviors in the present to the deep past through four subfields: archaeology, biological anthropology, linguistics and cultural anthropology. Students interested in a well-rounded approach to studying, interpreting and explaining the human experience should check out the Anthropology webpage for more information.

AMGT Applied Management

Applied Management is a Bachelor of Applied Science (BAS) program focused on students developing applicable skills that are most in-demand for employers today. Students can select between three disciplines within the Applied Management program based on their personal and career interests: General Management, Healthcare Administration and Agriculture/Agribusiness. As a bachelor's degree is often the cost of entry to certain positions in a variety of fields, this particular program provides a valuable opportunity for students to expand their career arcs through promotion and/or new job placements.

Coursework within the Applied Management program emphasizes putting concepts into practice. Students will get practical experience applying the four managerial functions (planning, organizing, leading and controlling) to the four resources (human, material, capital and informational) in a variety of settings and scenarios. Above all, students will learn more than just theory, but will actually develop and hone the vital skills demanded in the workplaces of the future.

Our program is available for students of all ages and backgrounds. We offer a fully online option for students who need such flexibility, as well as a convenient one-evening-per-week hybrid option. The Applied Management program at CBC is affordable, applicable and adaptable.

Apprenticeships

Apprenticeships provide ways to acquire the experience and training needed to get established in a career in the trades. CBC, in conjunction with labor unions, offers nine registered apprenticeship programs. Upon completion of a prescribed program of technical classes and on-the-job training, through the labor union, the worker receives a completion certificate which can be applied towards an AAS in Multi-Occupational Trades.

ART Art, Visual

The Art department offers a wide range of learning opportunities so students can:

- Satisfy degree requirements
- Transfer to four-year colleges or universities
- Develop professionally
- Find personal enrichment
- Enhance their appreciation of the visual arts

The Visual Arts curriculum is designed to prepare artists, arts educators and non-art majors with a foundation of skills for further growth in the field of art. We also provide educational opportunities for local artists to work with MFA art instructors for further development of their own work by experiencing new approaches to art making.

The level I and level II studio art courses place emphasis on the development of skills in material usage, design concepts and the formal and thematic aspects of art. The art appreciation and the survey art history courses provide understanding of the various themes in art, historical and cultural perspectives, art language and terminology. Students will experience the formal and conceptual analysis of works of art through written and verbal communication.

For art majors, the CBC art curriculum affords an opportunity to build a portfolio of work in a variety of media and disciplines. It is recommended for students preparing for transfer into programs in the fine arts, art education, art history, digital art/graphic design, architecture, illustration or other commercial art areas, museum studies or arts management.

ASTR Astronomy

Astronomy courses are offered to give science students a choice in how they integrate and apply math and science skills in their learning process. Introductory Astronomy is taught as the primary astronomy class. The study of Astronomy includes multiple scientific disciplines as the student studies the basics of observational astronomy, the solar system, stars, galaxies and the origins of the cosmos. This class is taught in our state-of-the-art Planetarium where multi-media teaching tools are employed to develop an understanding of how the universe works. We also use our Robert and Elisabeth Moore Observatory which gives students the opportunity for hands-on learning by observing in a research-grade facility right on campus. The use of the scientific method, math skills and critical thinking are emphasized as the basis for moving forward in a technologically challenging world.

AMT Automotive Technology

Automotive Technology is a comprehensive two-year program combining classroom instruction and hands-on training. The program is based on the eight National Institute for Automotive Service Excellence (ASE) topics and helps prepare students for the ASE certification tests.

Automotive Tech students learn the basics of computer diagnosis as well as traditional tool usage as they participate in the entire repair process, evaluating, repairing and maintaining vehicles.

Students who graduate with an AAS in Automotive Technology will be able to:

- Read repair orders, write service recommendations, obtain pertinent vehicle information, and document all problems.
- Use appropriate tools and equipment to perform maintenance and light repair services according to industry standards.
- Describe automotive electrical systems including wiring schematics, components, and diagnostic tools.
- Identify and diagnose electrical problems such as, shorts, opens, and grounds.
- Perform repairs on advanced automotive systems:
  - ABS (anti-lock brake systems), and hydraulic braking systems
  - Steering and Suspension systems
  - Alignments
  - Automatic Transmissions & Transaxle systems
  - Manual Transmissions/Transaxles and Drivetrain systems
  - Engine systems
  - Engine Performance systems
  - Heating and Air Conditioning systems

BIOL Biology

Whatever your interest, from plants, soils and insects, to the structure and function of the human body, Biology courses at CBC can assist in your educational pursuits.

The Biology department offers courses to:

- Fulfill lab science requirements to obtain an Associate in Arts and Sciences degree in a non-science field (BIOL& 100, BIOL& 175, BIOL 140, BIOL 148)
- Meet the entrance or support course requirements for the Health Sciences such as Nursing, Dental Hygiene, Physical & Occupational Therapy, Paramedic/EMT programs (BIOL& 160, BIOL& 211, BIOL& 241, BIOL& 242, BIOL& 260)
- Prepare the science major and pre-professional (pre-med, pre-vet, pre-chiropractic, pre-optometry, pre-pharmacy, etc.) transfer student for upper-level biology courses (BIOL& 211, BIOL& 212, BIOL& 213)
- Meet the need for electives and support general interest of the community (BIOL 140, BIOL 148, BIOL 201, BIOL 252, BIOL 253)

Lab and lecture must be taken concurrently in all class offerings.

BPR Blueprint Reading

Columbia Basin College offers several Blueprint reading courses. Some are tailored specifically for the Manufacturing Technology and Welding Technology programs.

BUS Business

Business coursework is designed to provide students with knowledge in management, marketing, finance and leadership. Several degree and certificate options are offered to cater to students of different backgrounds, career goals and professional/academic needs. Such options include:

- Business Associate in Arts & Sciences (AA/DTA/MRP), which allows students to seamlessly transfer to four-year university programs.

- Business Administration Associate in Applied Science (AAS), which allows students to build specific skills and transfer directly into CBC's Bachelor of Applied Science in Applied Management program.
- Digital Marketing Associate in Applied Science - Transfer (AAS-T), which ensures articulation into a Bachelor of Applied Science (BAS) program in Digital Marketing.

Students can also take advantage of our shorter-term certificate programs, including certificates in Sales, Leadership and Entrepreneurship.

Upon successful completion of the program, students will be able to:

- Use critical thinking skills to analyze business problems
- Communicate effectively and apply interpersonal skills and cultural awareness to business situations
- Understand how human resources are organized into systems and solve problems within those systems
- Apply information tools and resources within organizations
- Reason quantitatively and apply accounting and financial knowledge to business practices

CHEM Chemistry

The Chemistry department at CBC engages students in experiential courses that support each student's personal, academic and professional goals by developing an appreciation and fundamental understanding of the central science and its consistent and diverse impact on our lives. Our chemistry courses:

- Meet the entrance requirements for the Health Sciences (Nursing, Dental Hygiene, Physical Therapy, Paramedic/EMT, etc.), Agriculture and Nuclear Technology programs (CHEM& 121, CHEM& 122, CHEM& 123, CHEM& 140)
- Prepare the science major and pre-professional (pre-med, pre-vet, pre-chiropractic, pre-optometry, pre-pharmacy, pre-engineering) transfer student for upper-level courses (CHEM&161, CHEM&162, CHEM&163, CHEM&241/251, CHEM&242/252, CHEM& 243/253, CHEM 260)
- Provide undergraduate research opportunities that give students experience with advanced instrumentation and analytical techniques (CHEM 281-296).

Lab and lecture must be taken concurrently in all class offerings.

CMST Communication Studies

Communication Studies is a discipline that focuses on the ability of individuals to communicate effectively in a variety of environments. Students will explore both the theory and practice of fundamental communication skills and strategies. They will examine the human, social, political, institutional and mediated dimensions of human communications.

This department offers instruction in a wide range of communication areas including Public Speaking, Mass Media, Interpersonal Communication, Multicultural Communication, Oral Interpretation and Small Group Discussion.

Students on the Communication Studies Pathway prepare themselves for a multitude of career opportunities. Those may include advertising, business, education, journalism, electronic media production, marketing, law and public relations.

CA Computer Applications

Ready to learn or strengthen your computer skills? Whether you are an absolute beginner or looking to enhance your computer skills, there is a class for you. No prior experience is necessary. Computer Applications courses are offered for students to enhance their knowledge of current Microsoft Office programs and the Windows Operating System, improve keyboarding skills and learn more about the cognitive aspects of dealing with Information Technology (IT). Spanish-language support, supplemental academic support, and access to an open computer lab are available for most classes. Completing CA 120, CA 140, CA 150 and CA 160 is equivalent to completing CS 101. Students can only receive graduation credit for CS 101 ***or*** CA 120, CA 140, CA 150 and CA 160. Other coursework includes intermediate courses for Microsoft Office programs that help prepare and test for the Microsoft Office Specialist Certification (MO-100).

CS Computer Science

The Computer Science (CS) department is committed to providing students and the community with the training, academic studies and valuable hands-on experience necessary for employment in the Information Technology industry. To ensure current and relevant curriculum in this dynamic field and further its commitment to excellence, the department actively pursues partnerships with state and area employers, other colleges and baccalaureate institutions and advisory committee members from IT-related fields. The AAS in Cyber Security curriculum aligns with specific knowledge units defined by the National Security Agency as part of their Center of Academic Excellence in Cyber Defense (CAE-CD) program.

Students may earn the following:

Two-year Associate in Applied Science (AAS) degrees:

- Cyber Security
- Software Development
- Programming and Software Development

Four-year Bachelor of Applied Science (BAS) degrees:

- Cybersecurity
- Software Development

Many courses are designed to help students prepare for industry certifications. Please note that the certification exams are difficult to pass. The Computer Science classes provide students with an opportunity to obtain technical knowledge and product experience, but passing any certification exam requires extra study, work and initiative on the student's part.

New students may apply to CBC and begin taking Computer Science classes any quarter of the year. Classes are offered in several formats, day, online and hybrid.

Based on the areas below, graduates in Computer Science will be able to meet the following outcomes.

Programming and Software Development:

- Design, develop and implement programming techniques to solve complex problems
- Demonstrate professional conduct including collaborative teamwork and effective communication
- Implement accessible graphical user interfaces in multiple languages

Software Development:

- Design, develop and implement database solutions to solve complex problems
- Design, develop and implement programming techniques to solve complex problems
- Demonstrate professional conduct including collaborative teamwork and effective communication
- Administer networks and network services

- Analyze the ethical, legal and regulatory impact of computer systems on organizations, society and the individual
- Apply fundamental cloud concepts

Cyber Security:

- Design, develop and implement database solutions to solve complex problems
- Design, develop and implement programming techniques to solve complex problems
- Demonstrate professional conduct including collaborative teamwork and effective communication
- Administer networks and network services
- Analyze the ethical, legal and regulatory impact of computer systems on organizations, society and the individual
- Identify risks, assess threats and develop solutions to protect computer assets and data

Computer Science Software Development upper-level (300-400) courses are required for the Bachelor of Applied Science in Software Development (BAS-SD) degree.

Information forms the backbone of nearly every modern enterprise. The ability to manipulate this information, using the software, is essential to the success of modern enterprises. The BAS-SD prepares students to design and develop software and database solutions in the ever changing information technology industry. Upon completion of the program, successful students will be able to:

- Plan and implement security controls to protect data, software and hardware Design, develop and implement programming techniques to solve complex problems
- Demonstrate professional conduct including collaborative teamwork and effective communication
- Analyze the ethical, legal and regulatory impact of computer systems on organizations, society and the individual
- Implement accessible graphical user interfaces in multiple languages

CJ Criminal Justice and Forensics

Are you interested in exploring a career in law enforcement, corrections or perhaps taking on a role in our judicial system? There are many career opportunities that await those who graduate with a degree in criminal justice. Those who study criminal justice will explore the theories behind crime and punishment. You will work with professors who have experience in all aspects of criminal justice and related fields. Students will get hands-on experience in crime scene investigation, forensic science, juvenile justice and criminal law. At the end of the program successful students will be able to:

- Apply critical thinking skills to analyze complex criminal justice issues and formulate evidence-based solutions.
- Demonstrate an understanding of the legal system, criminal law, and the rights of individuals involved in the criminal justice process.
- Evaluate the effectiveness of various law enforcement strategies and techniques used to prevent and solve crimes.
- Utilize effective communication skills to interact professionally with diverse individuals and groups encountered in the criminal justice field.
- Demonstrate an awareness of ethical principles and apply them to real-world situations encountered in the criminal justice field.
- Evaluate the impact of historical, social and cultural factors on the development and functioning of the criminal justice system.
- Apply knowledge of technology and forensic science to criminal investigations and evidence collection.
- Demonstrate an understanding of the roles and responsibilities of various criminal justice agencies, including law enforcement, courts and corrections.
- Apply knowledge of human behavior and psychology to understand criminal behavior and prevent recidivism.
- Develop a professional identity as a criminal justice practitioner and understand the importance of ongoing professional development in the field.

CSIA Cyber Security

Computer Science Information Assurance (CSIA) is a course prefix designated for upper-level (300-400) courses. Currently, the CSIA courses are required for the Bachelor of Applied Science in Cyber Security.

Cybercrime is increasing at a rapid pace thus creating the need for trained cyber security professionals. The BAS Cyber Security degree focuses on the techniques, policies and procedures that prepare students to secure and defend critical assets. Courses include ethics, cryptography, computer forensics, cybercrime and terrorism, network fundamentals and wireless security. This degree provides the technical skills and knowledge for students who plan to enter the field of information security and helps students quickly prepare for roles as information security analysts and network administrators. The BAS Cyber Security degree also provides a foundation for many industry certifications such as Network+, Security+, SSCP and CEH. The cybersecurity program is certified as a national center of academic excellence (CAE2Y).

Upon completion of the program, successful students will be able to:

- Protect an organization's critical information and assets by ethically integrating cybersecurity risk management and business continuity best practices throughout an enterprise
- Implement continuous network monitoring and provide real-time security solutions
- Analyze advanced persistent threats and deploy countermeasures and conduct risk and vulnerability assessments of planned and installed information systems
- Formulate, update and communicate short- and long-term organizational cybersecurity strategies and policies

DAST Dental Assisting

CBC's Dental Assisting (DAST) program prepares graduates for work in dental offices, practices and clinics as a vital member of the professional dental team. Dental Assistants are frontline healthcare professionals who provide chair-side care to patients while assisting dentists and dental hygienists in general dentistry and specialty dentistry settings. As trusted professionals, they help ensure patient safety and quality of care while performing valuable skills such as:

- assisting dentists in all phases of patient treatment,
- sterilizing instruments and preparing equipment for procedures,
- providing nutritional counseling and patient education,
- preparing dental insurance documents,
- exposing and mounting dental radiographs,
- fabricating oral trays and mouth guards,
- placing sealants and provisional restorations,
- assisting with sedation and local anesthesia,
- applying fluoride,
- performing coronal polishing, and
- assisting in the management of dental offices

Students must apply to the Dental Assisting program and meet specific entrance criteria, including vaccination, background check and CPR certification requirements.

Department Overviews

DHYG Dental Hygiene

The Dental Hygiene degree is a four-year baccalaureate degree that consists of two years of prerequisite coursework and two years of Dental Hygiene professional training. Following completion of all prerequisites, students may apply for admission to the Dental Hygiene program. Applications and due dates are posted on the Dental Hygiene webpage. The program has limited enrollment. The educational objective of the program is to prepare students who, upon graduation and successful completion of the NBDHE (National Board Dental Hygiene Examination) and regional clinical board exams (Local Anesthetic, Restorative and Clinical dental hygiene procedures), will be licensed to practice as dental hygienists.

Prerequisites must be completed with a 2.0 GPA in each class with an overall cumulative GPA of 2.6.

Prerequisites:

- Intro to Sociology: SOC& 101
- Nutrition: NUTR& 101
- Human A&P 1 w/ Lab: BIOL& 241
- Human A&P 2 w/ Lab: BIOL& 242
- Microbiology w/ Lab: BIOL& 260
- Intro to Biochemistry w/ Lab: CHEM& 123
- English Composition I: ENGL& 101, or ENGL& 102, or ENGL& 235
- Introduction to Stats: MATH& 146
- General Psychology: PSYC& 100
- Social Psychology: PSYC 201 or PSYC& 200
- Communication Studies Courses: (two of the following) CMST& 101 or CMST& 210 or CMST& 220 or CMST 260

Select 5 credits from the following:

- CHEM& 121 Intro to Chemistry w/Lab, or
- CHEM& 122 Intro to Organic Chemistry w/ Lab, or
- CHEM& 140 General Chemistry Prep w/ Lab, or
- CHEM& 161 General Chemistry I w/Lab

Once admitted into the program, each student will be responsible for providing documentation of the following additional requirements:

- Required immunization records
- Current basic life support (BLS) for healthcare provider
- Satisfactory criminal history background check using a college approved vendor

Questions regarding the criminal background policy should be directed to the Dean for Health Sciences at 509-544-8310.

MRKT Digital Marketing

Digital Marketing (MRKT) coursework is designed to provide students with knowledge in social media strategy, search engine optimization, and other marketing-related expertise to prepare them for the modern business needs in the field of digital marketing. This AAS-T program is designed to be articulated into Bellevue College's BAS in Digital Marketing or may also lead into CBC's BAS in Applied Management if students desire to continue to pursue higher academic credentials.

The coursework's home program is Digital Marketing, though it may be included in several different programs in the Business department. Students who complete a degree program in Digital Marketing will be able to:

- Establish business and marketing objectives
- Translate objectives into integrated marketing strategies
- Manage marketing operations with a holistic business perspective
- Optimize Digital Marketing campaigns based on data inputs and research efforts
- Utilize marketing efforts to establish future product innovation and development

ECED Early Childhood Education

Are you passionate about helping young children learn, grow and thrive? CBC's ECED program prepares you to become a skilled birth to age 8 educator ready to support children across a wide range of educational and care settings.

Designed with flexibility in mind, the ECED program integrates early learning theory and clinical practice to connect foundational learning with authentic educational experiences. Whether you are just beginning your educational journey or already working in the field, you can start any quarter and study with flexible course scheduling options designed for working students. Most classes are offered in the evenings.

To support multilingual learners and future bilingual educators, coursework for the state initial and short certificates is also offered in Spanish, while the remaining Early Childhood Education AAS coursework incorporates language supports.

Degrees and Certificates Offered

- WA State Initial ECE Certificate
- WA State Short ECE Certificate
- WA State One-Year Certificate
- Associate in Applied Science (AAS) in Early Childhood Education
- Bachelor of Applied Science in Teacher Education (BAS-TE) with K-3 WA state teaching licensure (currently not accepting new applicants for the 26-27 school year)

ECON Economics

Economics is the science that studies how societies, businesses and individuals use limited resources to meet unlimited wants. Economics is a broad social science that it is subdivided into macroeconomics and microeconomics. Macroeconomics is concerned with the use of fiscal and monetary policy to stabilize the national economy. Microeconomics studies how individuals and businesses make decisions under different market structures.

EDUC Education

Education (EDUC) – and related Early Childhood Education (ECED) – courses offer foundational coursework and WA state DCYF aligned ECE certificates for students pursuing careers in teaching and related educational fields. These courses serve as an entry point to CBC's Associate in Applied Science (AAS) in ECE, Bachelor of Applied Science in Teacher Education (BAS-TE), or transfer pathways to four-year colleges and universities.

Upon successful completion of coursework in the ECE AAS degree, students will be able to:

- Apply the principles of child development and learning for children from birth to age eight
- Articulate appropriate care for children in an educational setting
- Evaluate children's cognitive and developmental abilities to inform the adaptation of policies, procedures and practices tailored to individual developmental needs
- Design developmentally appropriate curriculum and assessments for diverse learners
- Deliver culturally responsive instruction
- Evaluate early learning environments using evidence-based criteria to assess effectiveness, health, nutrition, safety and inclusivity

Upon successful completion of coursework in the BAS-TE degree, students will be able to:

- Apply academic and pedagogical theory to learning experiences
- Design developmentally appropriate learning experiences in a variety of settings
- Articulate how learners grow and develop across cognitive, social, emotional and physical domains
- Plan and deliver meaningful learning experiences with a professional disposition
- Create equitable access to learning opportunities using inclusive classroom practices

- Reflect on and refine pedagogical approaches to enhance instructional effectiveness

Please note that our BAS-TE program is not currently accepting new applicants for the 26-27 school year.

ELT Electronics

Electronics courses are offered in support of certificate and degree programs in Nuclear Technology. Courses are designed to offer a understanding of electricity and electrical components.

EMT Emergency Medical Technician

The field of Emergency Medical Services (EMS) is built upon a foundation that begins with basic CPR/First Aid and ends with the advanced care provided by a paramedic. Throughout EMS, students will find various levels of education that all focus on the "chain of survival". This chain is a theoretical ideal of how patients can best be treated, whether they are suffering a heart attack or involved in a motor vehicle accident.

Emergency Medical Technician-Basic (EMT-B) is the entry certification level that comprises the largest population of EMS responders, and is often considered the backbone of EMS. The EMT performs basic lifesaving skills which include: control of bleeding, stabilizing fractures, assisting patients with medications, providing oxygen and other critical interventions to avoid the development/progression of shock. EMTs may work side by side with a paramedic to transport patients to the emergency room.

Entrance into the EMT-B class is contingent upon the successful completion of a competitive entrance assessment. Applications are posted on the EMT webpage along with detailed instructions for completion of the application. EMT classes are held every spring and fall during the daytime on Tuesdays and Thursdays. The EMT-B course is 12 weeks long.

For additional EMS information, see the Paramedic section in the catalog.

ENT Engineering Technology

The Engineering Technology curriculum prepares the technician to assume a place on the engineering team as an assistant to the professional engineer. The program is two years in length and includes courses in engineering science, drafting, and related academic subjects. Skills are learned by completing projects in a variety of settings including campus labs, the computer-aided drafting (CAD) lab, the 3D print lab, and in the field.

It is the intent of the Engineering Technology department to:

- Generate an understanding of the basic principles of science and engineering and utilize that knowledge in the solution of problems
- Provide a basic education that will allow future educational growth
- Develop confidence in those skills needed for employment in the field of engineering technology

A Computer-Aided Drafting Certificate is also available. The certificate is a stackable certificate and is equivalent to the first year of the Engineering Technology AAS.

ENGL English

The English department offers writing courses that fulfill requirements for students in transfer, workforce, and bachelor degree programs. Courses include expository, research, and workplace writing; creative writing; and writing in medical professions, business, and project management. Literature courses— including English, American, world, and specialized literature—teach students to read closely, think critically, and communicate effectively. The skills learned in these classes are essential to a variety of careers, including business, education, engineering, health care, law, marketing, and politics.

ELA English Language Acquisition

The English Language Acquisition (ELA) program at CBC offers English language instruction to non-native English speaking residents of Benton and Franklin counties. Courses help students to develop or improve their skills in reading, writing, mathematics, speaking and comprehension of the English language. Instruction focuses on developing language and communication skills through an integration of academic, interpersonal and occupational problem-solving activities.

ENVS Environmental Science

Environmental Science offers both science and non-science students the necessary background to understand the environmental issues caused by human activities. Courses deal with the interrelationships of numerous aspects of the environment and how they are affected by modern industrial, agricultural, and other practices. In these courses we challenge ourselves to think critically about how modern societies and lifestyles affect our immediate environment in the short term, and the biosphere in the long run. Educating ourselves is the key that opens our minds to the extent that humans cause changes to their environment by using resources at rates that exceed the system's ability to replenish them.

EXSC Exercise Science

Students studying Exercise Science build a foundation for various careers, such as becoming a personal trainer, athletic trainer, physical therapist and more! As a field of study, Exercise Science is unique because of its application of scientific knowledge and skills to human function. Our program also serves the broader student body by providing educational opportunities designed to foster lifelong physical activity.

EFDA Expanded Functions Dental Auxiliary

The Expanded Functions Dental Auxiliary (EFDA) program is a two-quarter program that provides dental assistants with the knowledge and skills required to perform expanded functions under the direct supervision of a licensed dentist. The program is designed to prepare students for a career in the dental field and to provide a pathway for career advancement.

The EFDA program includes a combination of classroom lectures, laboratory exercises and clinical experiences. Students learn the theory and practice of dental care, including dental anatomy, oral pathology, pharmacology, dental materials and infection control. They also receive specialized training in expanded functions procedures, such as placing and contouring restorative materials, taking final impressions for indirect restorations, placing and removing temporary restorations and placing and removing rubber dams.

In addition to technical skills, the EFDA program emphasizes communication, critical thinking and problem-solving. Students learn to work effectively as members of the oral healthcare team, including dentists, hygienists and other support staff. They also learn to communicate effectively with patients, including active listening, clear and concise language and appropriate use of nonverbal communication.

The EFDA program is designed to provide students with a well-rounded education that includes not only technical skills but also professionalism, ethics and community service. Students learn the importance of ethical and professional behavior, as well as their responsibility to the community. They are encouraged to participate in community service and outreach programs, and to appreciate the scientific method, self-assessment and lifelong learning for continual professional growth and development.

Upon completion of the EFDA program, graduates are eligible to take the Dental Assisting National Board's (DANB) Certified Restorative Functions Exam and apply for an EFDA license from the state of Washington. Graduates may also be eligible for other dental certification programs, such as Certified Dental Assistant (CDA) or Registered Dental Assistant (RDA). Graduates may find employment in a variety of dental settings, including private practices, community clinics and hospital dental departments.

FS Fire Science

Beyond any other profession, firefighting exemplifies responsibility and courage. The desire to work in this profession is fueled by a value of life and an instinct to protect it. The Fire Science offerings at CBC are designed to assist students just beginning their journey or propelling those already employed as fire fighters. The Fire Science program will assist you in developing new skills and strengthening those that already exist. An education at CBC better prepares students to protect their community while giving them an edge in a well-respected, well-compensated career field.

CBC offers an Associate in Applied Science degree in Fire Science. Students enrolled in the Fire Science program will complete general education courses in industrial, social, political and economic concepts relating to the field of fire science. In addition, students will be exposed to courses in fire administration, tactics, inspection, investigation, hazardous materials and more. Firefighters possessing such a comprehensive background will increase their chances of career advancement and will be better prepared to protect the community. The updated degree requirements also provide flexibility to students preparing for multiple career options, including Paramedic.

The Fire Science program provides a pathway to higher education with transferability to several other universities offering BS degrees in fields such as fire service administration, EMS administration or in conjunction with the Paramedic program, a BS in Paramedicine.

To earn an Associate in Applied Science degree, candidates must accumulate the required credit hours in the Fire Science program. Classes are held in the evenings on a two-year rotation. There is not a separate application process to be accepted into the fire science program.

FYI First Year Introduction

The purpose of CBC's First Year Introduction (FYI) is to introduce new students to the academic culture, expectations, resources, procedures and policies at Columbia Basin College.

Students will be introduced to Canvas, CBC's learning management system, and complete assignments designed to familiarize new students with the college culture. Topics include: college terminology, study skills, campus safety, money management, selecting a college major, purchasing textbooks and more. Students will have an opportunity to explore campus, meet CBC faculty and staff and interact with students who are also new to the college experience.

Desired FYI Outcomes:

- Educate new students on college expectations
- Create a stronger sense of responsibility among students for their education
- Emphasize the importance of critical thinking skills
- Build relationships with peers, staff and faculty
- Improve the socialization process for new students at CBC
- Reduce the number of students on academic probation and suspension
-
- Increase retention rates

Completion of this course satisfies CBC's FYI requirement for all degree- and certificate-seeking students.

CBC's FYI program is nationally recognized by the National Council of Student Development for acclimating students to the college environment and improving student persistence in college.

FRCH French

Our French courses offer student-centered instruction that focuses on communicating effectively in French, appreciating the French culture and recognizing linguistic and cultural connections between the French-speaking parts of the world and the United States. Visit the World Languages webpage for more information.

ENGR General Engineering

General Engineering courses are required for various engineering degrees and fulfill the requirements for transfer to four-year institutions.

GEO Geography

The Geography offerings through CBC's Math, Science & Engineering Division provide transfer science credits to science majors, science requirements and electives toward graduation with an Associate in Arts and Sciences degree and personal interest opportunities for the community. The current Geography courses explore relationships between earth's natural environments; including the atmosphere, solid earth, oceans and streams and between the environment and humans. Course offerings also include in-depth study of the atmosphere, including meteorology. The courses promote extensive skill-building opportunities in communication through the spoken and written word, skills in the use of technology as a learning/research tool and emphasis on critical thinking skills (also see Human Geography).

GEOL Geology

The Geology offerings through CBC's CBC's Math, Science & Engineering Division provide transfer science credits to science majors, science requirements and electives toward graduation with an Associate in Arts and Sciences degree and personal interest opportunities for the community.

Intro to Physical Geology introduces students to earth's processes and the relationships between the processes and earth's physical/chemical properties. Environmental Geology is a study of the ever-increasing collision course between humans and our geologic environment, including flooding, landslides, earthquakes, pollution and volcanic eruptions. Historical Geology is the study of earth's continents, oceans and life forms through time. The Geology offerings promote extensive skill-building opportunities in communication through the spoken and written word, skills in the use of technology as a learning and research tool and emphasis on critical thinking skills.

HE Health Education

The Health Education (HE) courses provide students with the knowledge and skills necessary to promote healthy living and disease prevention. Encompassing a broad spectrum of health and wellness topics, these courses can help students make informed decisions to lead happier, healthier lives.

HPHYS Health Physics

The BAS in Health Physics (BASHP) prepares a highly skilled workforce that applies a scientific understanding of physical interaction of radiation with the body and environment to maintain protection from the potential hazards of radiation. The BASHP curriculum is aligned with Accreditation Board of Engineering and Technology, Inc. (ABET) standards. The ABET requires baccalaureate-level health physics

programs to demonstrate that graduates possess the necessary knowledge, skills and attitudes to competently and ethically implement and practice applicable scientific, technical and regulatory aspects of Health Physics.

Based on the ABET's recommendations, the Program Learning Outcomes of the BASHP program emphasize a strong foundation of technical knowledge, practical skills application and team-oriented performance proficiency. Aligning with the ABET's requirement, the BASHP curriculum framework.

Students graduating with a BAS in Health Physics will be able to:

- Apply knowledge of mathematics, science and engineering;
- Design and conduct experiments, as well as to analyze and interpret data;
- Design a system, component or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability;
- Function on multi-disciplinary teams;
- Identify, formulate and solve engineering problems;
- Use the techniques, skills and modern engineering tools necessary for engineering practice;
- Apply knowledge of atomic and nuclear physics to nuclear and radiological systems and processes;
- Apply knowledge of transport and interaction of radiation with matter to nuclear and radiation processes;
- Measure nuclear and radiation processes;
- Identify professional and ethical responsibility;
- Explain the impact of engineering solutions in a global, economic, environmental and societal context; and
- Discuss contemporary issues

HSCI Health Sciences

The Health Sciences (HSCI) courses provide both specialized multi-healthcare education and certification as well as general courses to meet a broad spectrum of healthcare program needs. Associate degree and certificate courses (100- and 200-level) include medical terminology, introduction to healthcare, medical office specialist and substance use disorder professional (SUDP) counseling. General courses include medical terminology and introduction to healthcare. Baccalaureate (300- and 400-level) HSCI courses support education in programs such as the Bachelor of Applied Science (BAS) in Community Health degree pathway.

Medical Office Specialist (MOS)

Our Medical Office Specialist Short-Term Certificate program offers rigorous and comprehensive training to individuals seeking to become essential frontline professionals in healthcare settings. By emphasizing a blend of technical know-how, soft skills, and practical industry knowledge, this certificate stands as a hallmark of excellence in the realm of healthcare administration.

Our Medical Office Specialist Short-Term Certificate Program is crafted to ensure students emerge as well-rounded, competent, and compassionate professionals. Through a combination of classroom instruction, practical training, and industry insights, students will be prepared to seamlessly transition into roles in diverse healthcare environments. This program not only provides the tools necessary for immediate employment but also lays a strong foundation for those who wish to pursue further studies or specializations in the healthcare administrative field.

Substance Use Disorder Professional (SUDP)

The Substance Use Disorder Professional (SUDP) program is an in-depth Health Science program specializing in substance use disorders. It is designed to align with the Washington State Department of Health's stringent requirements for SUDP certification, ensuring graduates are well-prepared for their roles in healthcare and social services.

SUDPs are crucial professionals who address the challenging and complex issues of addiction. They provide assessment, treatment and recovery services to individuals, groups and families, playing a pivotal role in fostering public health and community wellness. This program equips students with a comprehensive understanding of addiction, including its pharmacological, psychological and social aspects. It covers a wide array of subjects like treatment methods, cultural competence, ethical practice and case management. Through a blend of theoretical learning and practical application, students will develop the necessary skills to become compassionate, competent professionals in substance use disorder counseling.

Graduates of this program who complete CBC's Associate in Science (AS) in Health Science degree with an emphasis in SUDP will complete the educational requirements needed to become credentialed as a Substance Use Disorder Professional Trainee in Washington state. They will be well-prepared to engage in employer-proctored counseling hours needed toward full state licensure and embark on a fulfilling career, helping individuals overcome dependencies and achieve self-sufficiency, thereby contributing significantly to the field of healthcare and social services.

Community Health

CBC's Bachelor of Applied Science (BAS) in Community Health program prepares graduate for work in community health and related fields. Community health workers are frontline public health workers who are trusted members of and/or have an unusually close understanding of the community served. Community health workers have gained the attention of policy makers and healthcare providers because of their unique competence in not only understanding community needs but also gaining trust in ways that the traditional healthcare workforce may not. These attributes enable community health workers to address the social determinants of health where the healthcare system may fall short due to lack of time, skills, cultural affinity and community linkages.

While community health workers have diverse industry job titles, their scope of work may include:

- discussing health concerns with members of the community,
- providing informational counseling and social support,
- helping people understand their health conditions,
- translating or interpreting health information for clients,
- organizing outreach programs,
- advocating for individual and community health needs,
- collecting data and report findings to healthcare providers, and
- providing health screenings, referrals and educational materials.

Major courses in the BAS in Community Health program are taught online to accommodate working students. Major coursework includes:

- professional ethics,
- foundations of public health,
- epidemiology,
- healthcare leadership,
- health policy,
- behavioral and cultural issues in public health,
- public health education, and
- health systems and healthcare delivery.

Students must apply to the BAS in Community Health program. The application is open to all students with an associate degree in a healthcare, first responder, social sciences or behavioral sciences field or successful completion of a minimum of 90 credits of coursework from those courses listed in the BAS in Community Health degree requirements with a minimum cumulative GPA of 2.0.

Department Overviews

HCAD Healthcare Administration

The Healthcare Administration concentration within the Bachelor of Applied Science in Applied Management degree is designed to provide in-depth prepared healthcare specialists that are knowledgeable and skilled in management and leadership within the healthcare sector. There are a wide range of exciting careers in health services management, including assistant department head, assistant hospital administrator or management positions in residential care facilities and practitioners' offices.

HIST History

To understand our world today, we must understand our shared past. The History program's goal is to broaden the student's historical knowledge and to cultivate a historical awareness that allows the student to think, read, write and speak knowledgeably about a range of issues, including politics, law, race, class, gender and religion. History courses develop critical skills that are in high demand across a range of careers, from business to government to the law. The History department offers a variety of general and more specialized courses in U.S. and World History.

HORT Horticulture

Horticulture is the branch of agriculture focused on the science and art of cultivating plants. Horticulture crops are diverse, including annual and perennial ornamental plants, fruits and vegetables, decorative indoor plants, turfgrass, and landscape plants. Principles of plant production, landscape and turf, greenhouse management, hydroponics, and soils are all included in this applied science. See also Agriculture and Agriculture Food Systems for courses required to earn a degree in Agriculture or a Certificate in Greenhouse Management and Hydroponics.

HSP Hospitality

The Hospitality program prepares students for entry-level and advancement opportunities in lodging, food and beverage, and other customer-focused service environments. Students gain hands-on exposure to hotel operations, food and beverage management, and industry standards such as food safety and sanitation, including preparation for the ServSafe Food Manager certification.

Students graduating with a Hospitality Short-Term Certificate will be able to:

- Apply industry standards and regulations in hospitality settings.
- Use hospitality technologies, operational data, and industry best practices to support day-to-day operations, improve efficiency, and make informed workplace decisions.
- Apply foundational leadership, management, and professional skills applicable in the hospitality settings.

HDEV Human Development

Human Development (HDEV) courses, either HDEV 101 or HDEV 102, are mandatory courses for all first-quarter students new to college (excluding those in the Running Start, Welding, Automotive, and Short-Term Certificate programs). HDEV courses provide students with a theoretical and practical foundation for human growth and development across the life span. Encompassing a broad spectrum of inter- and intra-personal skills that enhance professional and personal relationships, these courses address such topics as learning theory, tools and techniques to succeed in college and life, career exploration and planning, decision-making and interpersonal communication. These classes are open to all CBC students and can be taken for personal development or as college-level restricted elective credits towards the Associate in Arts and Sciences degree.

GEOG& Human Geography

CBC's course in Human Geography provides an introduction to the ways in which human groups think about, arrange and modify their physical habits. This geographic knowledge is a basic means to understanding one's own world and the worlds of others.

DRW Industrial Drawing

Columbia Basin College offers an Industrial Drawing course tailored specifically for the Welding Technology program.

INT Industrial Technology

The Industrial Technology program offers a diverse curriculum designed to prepare students for careers in various industrial jobs. Coursework includes logistics technician and forklift operator. Each course combines practical, hands-on training with theoretical knowledge, ensuring students are job-ready upon completion.

IC Instrumentation and Control

Students who graduate with a Nuclear Technology Instrumentation & Control Technician Associate of Applied Science (AAS) or a One Year Certificate will be able to do the following, but only students who obtain the AAS will reach mastery in these outcomes:

1. Apply electronic principles and control fundamentals to instrumentation tasks.
2. Interpret wiring, control logic, and process flow diagrams.
3. Calibrate and verify instruments using standard tools.
4. Configure and test programmable devices to support control functions.
5. Apply safety, configuration control, and documentation practices in instrumentation work.
6. Document calibration results, troubleshooting steps, and system configurations using standard industry formats.

ICS Intercultural Studies

Courses in Intercultural Studies examine race, ethnicity, class, gender, disability, sexuality, and other diversities, with an aim towards understanding how diversity is changing the contours of American society. The goals of the ICS program are scholarly but also practical: we focus on understanding diversity with an aim towards applying that knowledge to workplace and social relationships in our pluralistic society. ICS students will gain a greater understanding of the diverse context of American society and become aware of their own cultural assumptions, perspectives, and habits, even as they recognize the assumptions that inform cultural perspectives other than their own. If you are interested in pursuing further study in Gender Studies; Latinx Studies; International Relations; Race, Ethnicity and Immigration; or Women's Studies, please ask your advisor or completion coach for academic maps of recommended courses for your intended major.

JAPN Japanese

Our Japanese courses offer student-centered instruction that focuses on communicating effectively in Japanese, appreciating the Japanese culture and recognizing linguistic and cultural connections between Japanese-speaking parts of the world and the United States. Visit the World Languages webpage for more information.

LSCR Logistics & Supply Chain Resilience

The Associate in Applied Science-Transfer (AAS-T) degree in Logistics and Supply Chain Resilience is a comprehensive two-year program designed to equip students with the necessary skills and knowledge for leadership roles in the dynamic field of logistics and supply chain management. Throughout the program, students will delve into critical aspects including contract management, enterprise resource planning, cybersecurity, global supply chain management, and risk management. The program is specifically designed to address the multifaceted challenges of the global supply chain, emphasizing the development of skills essential for navigating complex processes and effectively overcoming disruptions. Students will gain valuable insights and be equipped to manage individual proprietorships or small enterprises involved in related industries such as component manufacturing or inventory control. Join us on this educational journey, and become a proficient leader in the resilient and dynamic world of logistics and supply chain management.

MT Manufacturing Technology

Manufacturing Technology offers certificates and an AAS degree that includes both theoretical and practical training in manual and CNC machining. Areas covered include blueprint, computer-aided design software, computer-aided manufacturing software, lathes, milling machines, precision grinders, Computer Numerical Controlled (CNC) machines, and precision-measuring instruments.

Upon completion of the Manual Machining certificate program, students will be able to:

- Maintain a safe work area by demonstrating safety knowledge and proper use of hand tools and machining equipment.
- Read and interpret industry prints, using current drawing standards in dimensioning, symbology, line-types, line-weights, and drawing notes for technical drawings (blueprints).
- Produce industrial 2D Technical drawings (Blueprints) and 3D models using SolidWorks Software to create models, parts, and assemblies.
- Demonstrate measurement processes and skills utilizing standard precision measuring instruments to ensure projects are within given specifications/tolerance.
- Apply the principles and theory of manufacturing processes and basic manual machining operations using lathes, mills, drill presses, and surface grinders.
- Perform basic manual lathe operations (e.g., drilling, boring, knurling, turning, cutting, and treading) within required tolerances.
- Perform basic manual milling machine operations (e.g., reaming, drilling, boring, facing, milling) within required tolerances.
- Set up and operate computerized numerical control (CNC) mills and lathes (e.g., load and touch off tooling and set work Zero, and load and run programs) and can identify and describe the function of the most commonly used G and M codes.

Upon completion of the Precision Machining Technology AAS, students will be able to:

- Maintain a safe work area by demonstrating safety knowledge and proper use of hand tools and machining equipment.
- Read and interpret industry prints, using current drawing standards in dimensioning, symbology, line-types, line-weights, and drawing notes for technical drawings (blueprints).
- Produce industrial 2D Technical drawings (blueprints) and 3D models using SolidWorks Software to create models, parts, and assemblies.
- Demonstrate measurement processes and skills utilizing standard precision measuring instruments to ensure projects are within given specifications/tolerance.
- Apply the principles and theory of manufacturing processes and basic manual machining operations using lathes, mills, drill presses, and surface grinders.
- Create two-dimensional objects using computer-aided design/computer-aided manufacturing (CAD/CAM) software to generate machining tool paths.
- Generate Numeric Control (NC) code using G-codes to machine parts to specifications/tolerance.
- Set up and operate computerized numerical control (CNC) mills and lathes (e.g., load and touch off tooling and set work Zero, and load and run programs) and can identify and describe the function of the most commonly used G and M codes.

MATH Mathematics

Mathematical coursework is essential for many technical, occupational, and academic disciplines. The Mathematics department supports student learning needs by providing a full range of courses for students seeking degrees, certificates or seeking transfer to a baccalaureate institution. In addition, the Mathematics department offers developmental courses for students seeking to develop mathematical skills in preparation for college-level or program coursework.

MA Medical Assistant

The Medical Assistant (MA) program prepares graduates for a wide range of duties in medical offices and other healthcare settings. Students learn the knowledge, technical skills and work ethic that are required for an entry-level position in medical assisting. The curriculum includes competencies in front office administrative processes as well as back office clinical procedures. The program provides a One-Year Certificate in Medical Assisting as well as a two-year Associate in Applied Science degree.

CBC's Medical Assistant Certificate program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Medical Assisting Education Review Board (MAERB). Commission on Accreditation of Allied Health Education Programs, 9355 113th St. N., #7709, Seminole, FL 33775. Only graduates of a Commission on Accreditation of Allied Health Education Programs or an Accrediting Bureau of Health Education Schools (ABHES) accredited program are eligible to take the CMA (AAMA) Certification Exam. Upon passing the certification exam, graduates are eligible to apply for licensure as a Medical Assistant-Certified (MA-C) in the state of Washington.

Students must meet minimum entrance standards and be accepted for enrollment after application to the department. The major courses for the Medical Assistant program are offered over a four-quarter sequence, beginning in the fall quarter of each year. The fourth quarter of the program will be offered in the summer in which students will be active in externships throughout the healthcare community. Students may complete General Education requirements for the two-year Associate in Applied Science degree either before or after completion of the Medical Assistant Certificate major courses.

Prerequisites that are considered for acceptance into the Medical Assistant program include: PSYC& 100, ENGL& 101, ENGL& 102, ENGL& 235, CMST& 101, CMST& 210, CMST& 220, CMST 260, and HSCI 147. All prerequisite and Medical Assistant courses must be passed at a 2.0 GPA or higher, and students must have an overall GPA of 2.0 or above at the time of graduation. Students are expected to possess the ability to use basic computer systems and produce documents.

A Medical Assistant program application is required for consideration. Medical Assistant program application should include a copy of the following healthcare document:

- A current American Heart Association Basic Life Support (BLS) card

Accepted applicants will be mailed a letter confirming registration and are required to provide the following additional documentation:

- Program specific immunization records (details provided with admission into the program).
- Satisfactory criminal history background check using a college approved vendor. Criminal history background information is required of all Medical Assistant students. Information obtained will be considered in determining student eligibility to complete clinical coursework. Inability to participate in clinical experiences due to the information obtained from the background check may result in the student's inability to satisfactorily complete program degree requirements. Any infraction while enrolled in the Medical Assistant program should be self-reported to the coordinator/director. Questions regarding this policy should be directed to the Dean for Health Sciences.
- Successful drug testing is required by clinical facilities.

IMAGE Medical Imaging Technology

The IMAGE courses are designed to prepare students for advanced level ARRT certification examinations in the following areas:

- Computed Tomography (CT)
- Magnetic Resonance Imaging (MRI)
- Mammography

For additional information, see the program specialty information.

Computed Tomography (CT)
The Computed Tomography certificate program is designed to address competency development required by the American Registry of Radiologic Technologists (ARRT) for the advanced level certification exam in Computed Tomography (CT). In addition to clinical competency, academic coursework is offered to prepare the student for the exam administered by the ARRT. Coursework includes sectional anatomy, physics and instrumentation of CT scanning machines. Additional work experience may be needed to satisfy the minimum number of exams necessary to qualify for the ARRT advanced level exam in CT. The program is designed for certified technologists registered by the ARRT in Radiography, Nuclear Medicine, or Radiation Therapy.

Magnetic Resonance Imaging (MRI)
The Magnetic Resonance Imaging (MRI) certificate program is designed to address competency development required by the American Registry of Radiologic Technologists (ARRT) for the advanced level certification exam in Magnetic Resonance Imaging (MRI). In addition to clinical competency, academic coursework is offered to prepare the student for the exam administered by the ARRT. Coursework includes sectional anatomy, physics and instrumentation of MRI scanning machines. Additional work experience may be needed to satisfy the minimum number of exams necessary to qualify for the ARRT advanced level exam in MRI. The program is designed for certified technologists registered by the ARRT in Radiography, Nuclear Medicine, Radiation Therapy, or Ultrasound.

Mammography
The Mammography short-term certificate program is designed to prepare radiologic technologists to be licensed by the ARRT in radiography [R.T. (R)] in the specialized area of mammography. Lecture, lab and academic coursework are required for the advanced level certification exam offered by the ARRT in Mammography. Students will need additional supervised work experience to satisfy the minimum number of exams in order to be eligible for registry. This certificate includes the following documented training contact hours required by MQSA while under the supervision of a qualified instructor: eight hours of digital education in mammography modality while performing mammography exams, and 40 hours of Initial Training.

For more information, contact the Health Science Center at 509-544-8300.

MUSC Music

Music offerings at Columbia Basin College meet the requirements for the first two years of Bachelor of Arts or Bachelor of Science degrees in Music at most four-year institutions; enhance the musical knowledge and performance ability of students wishing to enter the professional field with an associate in arts degree; and provide general leisure activity.

Music majors should choose a major instrument or voice for performance emphasis and register for appropriate applied music courses. Music majors should also register for the music theory sequence beginning with the fall quarter of their freshman year. All students in the College are encouraged to participate in the performance groups. Students planning to major in music must participate in at least one large performing group per quarter.

Career opportunities include the fields of music performance, teaching (public and private), composition, music ministry, music industry, music library studies, ethnomusicology, systematic musicology music history and music therapy.

NOP Non-Licensed Operator

Non-Licensed Operator courses support the Nuclear Technology program. Non-licensed operator positions require highly skilled people who understand principles associated with electrical production and distribution, mechanical and electrical components, hydraulic, water and steam systems, heat transfer and fluid flow, HVAC systems and instrumentation and control, and to use these principles in the monitoring, operation and minor maintenance of nuclear and auxiliary process systems. Additionally, courses in this curriculum provide principles of conduct of operations, human performance improvement, safety analysis and environmental compliance.

Students who graduate with a Nuclear Technology Non-Licensed Nuclear Operator Associate of Applied Science (AAS) or a One Year Certificate will be able to do the following, but only students who obtain the AAS will reach mastery in these outcomes:

1. Apply physics and thermodynamic principles to interpret and control plant systems.
2. Interpret procedures and diagrams for reactor systems.
3. Assess and communicate system operating status using plant indications.
4. Explain plant system functions and components, including reactor systems where applicable.
5. Apply safety and regulatory controls to routine and off-normal conditions.
6. Identify abnormal conditions, prioritize their significance, and use the correct

reporting process to initiate corrective actions.

NMTEC Nuclear Medicine Technology

Nuclear medicine is the medical specialty that utilizes the nuclear properties of radioactive and stable nuclides to make diagnostic evaluations of the physiologic and/or anatomic conditions of the body and to provide therapy with unsealed radioactive sources. The nuclear medicine technologist is an allied health professional who, under the direction of an authorized user, is committed to applying the art and skill of diagnostic evaluation and therapeutics through the safe and effective use of radionuclides. Responsibilities include, but are not limited to: preparation, quality control testing and administration of radioactive compounds; execution of patient imaging procedures including computer processing and image enhancement; laboratory testing; patient interviews; instruction and preparation for administration of prescribed radioactive compounds for therapy; quality control; and radiation safety.

This is an 18-month, full-time Nuclear Medicine Technology program leading to an Associate in Arts in Nuclear Medicine Technology at Bellevue College. It is offered through a cooperative effort between Columbia Basin College and Bellevue College. The curriculum prepares students in all aspects of nuclear medicine technology. In addition to performing a wide variety of imaging and therapeutic procedures, students learn to prepare and administer radiopharmaceuticals, explain the procedures and their risks, take patient histories and analyze the results of each study. Students work with a number of radiation detection systems, including gamma cameras and positron emission tomography systems. They also work with computers that analyze data from imaging studies in addition to those used for administrative tasks. Most importantly, students work directly with patients helping to ease their anxiety as well as provide important test result information for physician diagnosis of their ailments. Through the use of distance education and interactive television courses, Bellevue College will deliver course content to students at Columbia Basin College. Students will be able to complete the great majority of the clinical portion of the degree at clinical facilities in the Tri-City area. Upon successful program completion, students are eligible for national certification exams as well as Washington state licensure.

Students are required to attend a Nuclear Medicine Information Session at CBC prior to applying for the program through Bellevue College. The prospective student would then apply to Bellevue College for the program which is a selective and competitive admissions process. Tuition and fees for the entire program are approximately $8,000; books are approximately $1,000, most of which are purchased at the beginning of the program.

NT Nuclear Technology

The Nuclear Technology program prepares you to work in a large variety of Nuclear and Energy Generation Facilities, such as Nuclear Power Plant Operations, Nuclear Fuel Fabrication, Research Facilities, and Radiation Protection.

Students pursuing a Nuclear Technology Associate in Applied Science (AAS) degree can choose any one of the following specialties (tracks):

- Radiation Protection Technology
- Non-Licensed Operators
- Instrumentation & Control Technology

NRS Nursing

Columbia Basin College offers an Accreditation Commission for Education in Nursing (ACEN) Associate Degree in Nursing program and Commission on Collegiate Nursing Education (CCNE) accredited RN-BSN and LPN-BSN programs. Each nursing program prepares students for professional nursing practice through an educational process that combines a rigorous academic curriculum with clinical practice hours. Instruction takes place on the Richland campus as well as in partnering healthcare facilities. A state-of-art practice lab is available for students to learn and practice clinical skills. For more information, call 509-544-8309.

Nursing (ADN) Associate in Applied Science - Transfer (AAS-T) Degree

Students must first submit a general Application for Admission to CBC and include transcripts from all colleges attended. Application to the Nursing program is to be completed in January/February of the intended year of enrollment. Students will be admitted to a cohort that begins each fall. Students are strongly encouraged to complete as many nursing support courses as possible before entering the Nursing program. It is especially helpful to have all science classes completed. These courses provide points for the Admission Index Score used in the application process. If support courses are not completed before entry, students must be eligible to enter those courses while enrolled in Nursing and must complete all coursework before receiving the AAS-T degree from CBC. Students should meet with an advisor after first attending a pre-nursing information session. Current information and the schedule for pre-nursing information sessions can be found on the Nursing webpage. Please refer to the Entrance Requirements.

All nursing support courses must be passed with a 2.0 or better. Nursing support courses that should be completed prior to entering the Nursing program include the following:

- Chemistry with lab: CHEM& 121 or higher
- Human A&P 1 with lab: BIOL& 241
- Human A&P 2 with lab: BIOL& 242
- English Composition: ENGL& 101 or ENGL& 102 or ENGL& 235
- Lifespan Psychology: PSYC& 200
- Microbiology with lab: BIOL& 260
- Math: Introduction to Stats, MATH& 146
- Communication Studies: CMST 260 or CMST& 101 or CMST& 210 or CMST& 220

BSN Concurrent Enrollment Option

The Columbia Basin College (CBC) Nursing program offers a concurrent enrollment option for students in their final two quarters of the Associate in Applied Science-Transfer degree in Nursing program. This unique opportunity allows eligible students to concurrently enroll in Bachelor of Science in Nursing (BSN) courses at CBC, providing a seamless transition to further their education and advance their nursing careers. By taking advantage of this concurrent enrollment option, students can save time and work towards their BSN while completing their AAS-T degree. Students will be provided with details about the application and admission to the concurrent enrollment program after they are selected for admission to the CBC AAS-T program. Information sessions will be offered to explain the process of applying and other program details. Students also have the option of enrolling in the RN-BSN Program at CBC after graduation as well.

Registered Nurse to Bachelor of Science (RN-BSN) Entrance Requirements:
Associate Degree Registered Nurses (RNs) with an unencumbered license in the state of Washington have the option to complete the Bachelor of Science in Nursing (BSN). This program can be completed in as little as four quarters and much of the course work is completed online. To be considered for the RN-BSN program, the applicant must have completed 40 general education credits in an Associate Degree in Nursing (ADN) program, including:

- MATH& 146 Introduction to Stats (or equivalent)
- CHEM& 121 Intro to Chemistry w/ Lab (strongly preferred) or CHEM& 110 (or equivalent)
- ENGL& 101 English Composition I (or equivalent), ENGL&102 Composition II (or equivalent), or ENGL&235 Technical Writing (or equivalent)
- NUTR& 101 Nutrition (or equivalent) Note: this course may be taken concurrently during the RN-BSN program

Licensed Practical Nurse to Bachelor of Science (LPN-BSN) Entrance Requirements
Licensed Practical Nurses (LPNs) with an unencumbered license in the state of Washington have the option to complete the Bachelor of Science in Nursing (BSN). This program can be completed in seven quarters with didactic classes offered online and labs and clinical rotations offered on weekends at the Richland campus as well as in partnering clinical facilities. All nursing prerequisite courses must be completed with a 2.0 or better. Nursing prerequisite courses that should be completed prior to entering the LPN-BSN Program include the following:

- PSYC& 100 Introduction to Psychology
- PSYC& 200 Lifespan Psychology
- BIOL& 160 General Biology with Lab (or equivalent)
- BIOL& 241 Anatomy and Physiology I with Lab (or equivalent)
- BIOL& 242 Anatomy and Physiology II with Lab (or equivalent)
- BIOL& 260 Microbiology with Lab (or equivalent)
- MATH& 146 Introduction to Stats (or equivalent)
- CHEM& 121 Intro to Chemistry w/ Lab (or equivalent), or higher
- ENGL& 101 English Composition I (or equivalent), ENGL&102 Composition II (or equivalent), or ENGL&235 Technical Writing (or equivalent)
- CMST& 101 or CMST& 210 or CMST& 220 or CMST 260 (5 credit option)
- NUTR& 101 Nutrition (or equivalent) Note: this course may be taken concurrently during the LPN-BSN program

Please note: transcripts will be reviewed by the CBC transcript evaluator to ensure course equivalency. Prerequisite courses do not have an expiration date; however, prerequisite courses must be completed prior to being accepted into the LPN-BSN or RN-BSN program.

Once admitted into a nursing program (all tracks), each student will be responsible for providing documentation of the following additional requirements:

- Required immunization records
- Current American Heart Association BLS CPR card
- Satisfactory criminal history background check using a college approved vendor. Criminal history background information is required of all Nursing students. Information obtained will be considered in determining student eligibility to complete clinical coursework. Inability to participate in clinical experiences due to the information obtained from the background check may result in the student's inability to satisfactorily complete program degree requirements. Any infraction while enrolled in the Nursing program should be self-reported to the Director. Questions regarding this policy should be directed to the Dean for Health Sciences at 509-544-8310.

NA Nursing Assistant

Nursing assistants (NAs) provide care to patients in a variety of healthcare settings for individuals that have difficulty performing their own basic care. Because of the personal nature of the job, nursing assistants should be compassionate and enjoy helping others. The Nursing Assistant program is designed to prepare students for entry-level practice as a Nursing Assistant-Certified (NAC) in Washington state. Students who successfully pass all components of the CBC NA coursework will receive a DSHS Certificate of Completion, notation posted on the CBC transcript and will be eligible to take the Nurse Aide Assessment Program (NNAAP) exam and apply for licensure as an NAC. The exam has two parts: a written or oral portion and a skills demonstration. Candidates must successfully pass both parts in order to be eligible to apply for licensure in the state of Washington and be placed on the nurse aide registry.

Lecture/Clinical Requirements
Students are required to meet three to four days per week to complete the NA 100 lecture hours. Students are required to complete 48 clinical hours during the quarter. Students are to complete these hours during shifts that may start as early as 6 am. These hours are arranged by the instructor with the facility. Students need to make arrangements to attend these required shifts as attendance is mandatory.

Applicants are required to provide the following documentation:

- A current American Heart Association Healthcare Basic Life Support (BLS) card
- A current First Aid card
- A professional letter of reference

After review of the applications, applicants will be mailed a letter informing them of their status. Once admitted into the program, each student will be responsible for providing documentation of the following additional requirements:

- Program specific immunization records (details provided with admission into the program)
- Satisfactory criminal history background check using a college-approved vendor. Criminal history background information is required of all Health Science students. Information obtained will be considered in determining student eligibility to complete clinical coursework. Inability to participate in clinical experiences due to the information obtained from the background check may result in the student's inability to satisfactorily complete the Nursing Assistant program requirements. Any infraction while enrolled in the Nursing Assistant program should be self-reported to the director. Questions regarding the criminal background policy should be directed to the Dean for Health Sciences at 509-544-8310.

NUTR& Nutrition & Food Science

Nutrition & Food Science offers a course designed to introduce students to the principles of nutrition as they apply to nutrients in food, digestion, absorption and metabolism. The course explores energy balance, weight control concerns, nutrition assessment and improvement of health and wellness. This course also covers special nutritional requirements at different stages of the lifecycle. Economic, cultural and psychological issues are considered.

OSH Occupational Safety & Health

This program prepares individuals to apply basic safety and health principles including physics, engineering principles and technical skills, in support of industry professionals engaged in identifying and mitigating hazardous materials and maintaining safety and health standards. This program includes instruction in industrial and construction safety principles; inspection, monitoring, testing and sampling procedures; biohazard identification, laboratory techniques, instrument calibration and equipment maintenance, safety and protection equipment; applications to specific work environments and report preparation.

Students graduating with an Associate in Applied Science degree in Occupational Safety & Health will be prepared to:

- Perform basic occupational safety and health functions.
- Apply a working knowledge of mathematics, sciences and other related disciplines to conduct experiments and to analyze and interpret data to solve occupational safety and health-related issues.
- Identify, formulate and solve applied science problems, using the techniques, skills and modern tools necessary for professional practice.
- Apply the principles of industrial hygiene and toxicology, and use fundamental exposure measurement techniques.
- Evaluate the relevance of contemporary issues in occupational safety and health.
- Identify principles of professional and ethical responsibility for occupational safety and health professionals.
- Apply principles of occupational safety and health through mentored supervised learning experiences.

PMD Paramedic

The Paramedic is the highest trained of all Emergency Medical Technicians. It is crucial to have a good foundation as an EMT or an Advanced EMT in order to be successful as a Paramedic. The Paramedic requires significantly more training than the EMT or the Advanced EMT, and represents the Advanced Life Support role in the pre-hospital setting.

The Paramedic program at CBC is 18 months long and will challenge you in many ways. Our students spend more than 2,000 hours in training which includes the classroom, skills labs and internships. Successful completion of the program will allow you to take the National Registry of EMT-Paramedic exam for national certification.

Two options are provided for the Paramedic pathway: a Paramedic Certificate and an Associate in Applied Science (AAS) Degree in Paramedicine.

An application and entrance assessment are required as part of the acceptance process into the Paramedic Certificate or AAS degree program. It is strongly recommended that program prerequisites are completed prior to the entrance assessment as those skills will be assessed on the entrance exam. A student does not need to be accepted and enrolled in the Paramedic program to take major support, general education or prerequisite classes. The Paramedic program starts a new class every winter quarter. The Paramedic program is considered hybrid, which means most of the program material will be delivered online in an asynchronous fashion. All skills labs and internships will occur in person. Students will have weekly completion targets to stay on track in the program.

Individuals working towards the AAS and Certificate will require successful completion of the specified prerequisites before the program start date.

Minimum application requirements are as follows:

1. The applicant must be a current student at CBC or apply for admission. If you are not currently a student at CBC you may apply on the CBC website.
2. The applicant must be at least 18 years old by the beginning of the course.
3. Provide evidence of a high school diploma or equivalency.
4. The Columbia Basin College Paramedic program is limited to only emergency medical personnel who can verify certification of one year EMT or equivalent.
5. Proof of completion of one of the following options for an anatomy and physiology course(s), prior to the start of the program. You may be enrolled in a course during the application period if the course is completed prior to the start of the program. If a course is not complete before the application deadline, a written explanation of when you expect to be complete must be provided, as well as a current course grade at the time of application.

Option #1: Completion of the corexcel A&P online course with a grade of 2.0 or better. This course meets the minimum requirements for A&P entry into the Paramedic certificate program only. It will not provide college-level credit towards the AAS degree and should only be taken if you are applying for the Paramedic certificate program.

Option #2: To earn a degree, students must complete BIOL& 241 with lab and BIOL& 242 with lab at Columbia Basin College or an equivalent from another accredited institution. If seeking equivalent, a minimum of 10 credits of Anatomy & Physiology must be transferrable to CBC with a 2.0 GPA or greater. A copy of your unofficial transcript must be submitted with this application. The actual transfer of the credits does not have to be completed until full acceptance has been granted.

6. English: There is not a prerequisite for ENGL& 101 to gain entry into the certificate or the AAS Paramedicine program, however, completion of ENGL& 101 is strongly encouraged.
7. Math: At minimum, completion of MATH 50 with a 2.0 or greater, or testing placement into college-level math. If you have completed a college-level math course, that would be preferred.
8. Attendance of a mandatory paramedic information session.

PHIL Philosophy

Philosophy analyzes virtually every aspect of human existence. It attempts to understand the issues of our lives, such as the nature of truth and knowledge, the mind and body, freedom and determinism, right and wrong, and the existence of God. The philosophy department offers a wide range of classes that encourage the critical thinking skills essential for any career.

PHLEB Phlebotomy

The Columbia Basin College (CBC) Phlebotomy program is designed to equip students with the knowledge, technical skills, and professional competencies needed to become vital members of a healthcare laboratory team. Phlebotomists play a crucial role in the medical field by specializing in the collection of blood specimens, ensuring accurate laboratory testing, and supporting patient care in hospitals, clinics, diagnostic laboratories, and other healthcare settings. With the increasing demand for trained phlebotomists, this career path offers stability, growth, and the opportunity to make a meaningful impact in patient diagnostics and treatment.

Through a combination of classroom instruction, hands-on lab training, and clinical experience, students will develop the precision, attention to detail, and interpersonal skills necessary for success in this field. The program prepares graduates to apply for Washington State Department of Health (DOH) licensure as Certified Medical Assistant-Phlebotomists under RCW 18.360.030.
To successfully complete the program, students must achieve an average score of 75% or higher on all tests and coursework, demonstrate proficiency in essential laboratory skills such as venipuncture and capillary blood collection, and pass a supervised clinical experience in a hospital, clinic, or laboratory setting. This real-world training ensures that graduates are not only technically competent but also confident in their ability to work with patients and healthcare professionals.

As part of the program requirements, malpractice insurance and lab fees are mandatory for all Health Science students and will be automatically included in registration fees. With a strong foundation in laboratory procedures and patient care, graduates of the CBC Phlebotomy Program will be well-prepared for licensure and employment in a variety of healthcare environments. For more details on licensure requirements, visit the Washington State DOH Licensure Information page.

Once admitted into the program, each student will be responsible for providing the following requirements:

- Evidence of current American Heart Association BLS Provider CPR Card and First Aid Certification.
- Program specific immunization records (details provided with admission into the program).
- Satisfactory criminal history background check using the college-approved vendor, Castle Branch. Criminal history background information is required of all clinical students in the CBC School of Health Sciences. Information obtained will be considered in determining student eligibility to complete clinical coursework. Inability to participate in clinical experiences due to the information obtained from the background check may result in the student's inability to satisfactorily complete program requirements. Any infraction while enrolled in the program should be self-reported to an instructor or the Dean for Health Sciences. Questions regarding this policy should be directed to the Dean for Health Sciences at (509) 544-8310.

After review of applications, applicants will be sent a letter informing them of their status. More information can be obtained from the Health Sciences Center office at 509-544-8300.

PE Physical Education

Physical Education (PE) courses cater to students of all fitness levels and interests. These physical activity classes, enhance students' ability to stay active throughout their lives.

PEC Physical Education Professional

These courses are designed for the PE major or students interested in a coaching career.

PHYS Physics

Physics courses are required by vast number of technical, occupational and academic disciplines because the Laws of Physics form a foundation for engineering, health sciences and other physical sciences. The Physics department supports these needs by providing conceptual physics, algebra/trigonometric-based physics (general physics) and calculus-based physics (engineering physics). The courses fulfill the requirement for the transfer to four-year institutions and various technical programs.

POLS Political Science

How do societies decide who gets what, who holds power, and what values shape our world? Political science explores these big questions by examining governments, policies, and the forces that drive political decisions. You'll study how power is gained and used, how laws are made and how citizens influence their leaders. Our classes also help students build skills in critical thinking, communication, research, and civic engagement.

Whether you're interested in government, law, international relations, or activism, political science provides the tools to understand and engage with the world around you.

PROJ Project Management

Columbia Basin College's Project Management program prepares students to lead projects with confidence across a wide range of industries and organizational contexts. Grounded in current PMI standards and driven by real-world application, the program develops both the technical and interpersonal competencies that today's employers demand. Coursework spans the full project lifecycle, from initiating and planning through execution, monitoring and control, and closeout. Specialized study includes Agile Project Management, Risk Management, Procurement and Contracts, Quality Management, Earned Value Management, Leadership, Communications, HR and Emotional Intelligence, and Software Scheduling Tools. Instruction is delivered by highly experienced, PMP-certified project management practitioners who bring current industry perspective into every course, emphasizing hands-on, practical application over theory alone.

Students may enter the program during any quarter. Courses are offered in on-campus, hybrid, and online formats. The program can be completed entirely online for students who need the flexibility of remote learning.

Students may earn a Project Management Certificate, an Associate in Applied Science (AAS) degree, or a Bachelor of Applied Science (BAS) degree. The program is accredited by the PMI Global Accreditation Center (GAC), a distinction that reflects rigorous academic standards and ensures graduates are prepared to meet the expectations of the profession. GAC accreditation also allows students to apply qualifying course hours toward PMI certification requirements, including Professional Development Units (PDUs).

Graduates pursue careers as project managers, project coordinators, schedulers, risk managers, contracts administrators, construction managers, and more, across industries including agriculture, information technology, healthcare, engineering, and government.

Program Learning Outcomes

Graduates of the Project Management program will be able to:

1. Apply project management principles and tools to deliver measurable business value.
2. Uphold PMI's Code of Ethics and Professional Conduct in all project environments.
3. Demonstrate effective leadership and communication across all phases of a project.
4. Integrate behavioral, cultural, and leadership concepts into project decision-making.
5. Apply informed, data-driven decision-making to achieve project objectives.

PSYC Psychology

Psychology is the science behind the mind, behavior and emotions. From unlocking the mysteries of the brain to exploring ways to improve mental health and well-being, our Psychology courses provide an exciting opportunity to dive into the human experience. Students will gain valuable knowledge and skills that deepen their understanding of human behavior while enhancing their ability to think critically and creatively. Whether you're curious about why people think and act the way they do or eager to make an impact in fields like healthcare, education or business, the skills and insights you gain will prepare you for success in any career.

RPT Radiation Protection Technician

The Radiation Protection Technician (RPT) option of the Nuclear Technology program develops technicians who measure and record radiation levels. Technicians also maintain and calibrate radiation protection instruments. A RPT has a key role in fostering a safe work environment for employees working with radioactive materials or in radiation areas. RPTs must be able to assist in the development of procedures for the operation of radiation protection instruments and in the evaluation of plans to limit the dose of radiation workers receive.

Students who graduate with a Nuclear Technology Radiation Protection Technician Associate of Applied Science (AAS) or a One Year Certificate will be able to do the following, but only students who obtain the AAS will reach mastery in these outcomes:

1. Apply radiological fundamentals to plant operations.
2. Implement radiation protection programs and regulatory standards.
3. Conduct radiological monitoring and analysis.
4. Apply radiation control methods to limit exposure and contamination.
5. Recognize and respond to abnormal radiological conditions and take appropriate protective actions.
6. Identify radiological issues, prioritize their significance, and initiate the appropriate reporting or corrective actions.

RATEC Radiologic Technology

The Radiologic Technology program at Columbia Basin College is an eight-quarter program preparing students to be eligible to become certified by taking the National Registry Examination offered by the American Registry of Radiology Technologists.

Radiology Technologists work directly with the patient and physician performing sophisticated diagnostic x-ray procedures including radiation safety, radiographic exposures, image and film processing and operating many types of technological equipment. The radiologic technologist also provides professional handling and care of patients.

The program requires a series of credit courses directly related to radiologic sciences. The program also requires students have completed major support and general education courses prior to admission. For additional information, please refer to the Associate in Applied Science in Radiologic Technology degree requirements.

The Radiologic Technology program admits students annually during summer quarter for this eight-quarter program. Once admitted into the program, each student will be responsible for providing documentation of the following additional requirements:

- Program specific immunization records (details provided with admission into the program)
- Current American Heart Association CPR card for Healthcare Provider
- Satisfactory criminal history background check using a college approved vendor. Criminal history background information is required of all Health Science students. Information obtained will be considered in determining student eligibility to complete clinical coursework. Inability to participate in clinical experiences due to the information obtained from the background check may result in the student's inability to satisfactorily complete program degree requirements. Any infraction while enrolled in the Radiologic Technology program should be self-reported to the program coordinator. Questions regarding the background policy should be directed to the Dean for Health Sciences at 509-544-8310.

For more information regarding the Radiologic Technology program, please visit the Rad Tech webpage or contact the Health Sciences Division at 509-544-8306 or 509-544-8300.

RDG Reading

The Reading department offers classes for students who need to build and/or improve college reading skills or who wish to acquire college vocabulary.

RT Respiratory Therapy

Columbia Basin College offers a Bachelor of Applied Science (BAS) in Respiratory Therapy that is designed to prepare leaders for the field of respiratory care by including curricular content with objectives related to the acquisition of skills in one or more of the following: management, education, research, and advanced clinical practice (which may include an area of clinical specialization). The program combines a rigorous academic curriculum with hands-on clinical training to ensure students develop both theoretical knowledge and practical skills in respiratory therapy. To prepare leaders for the field of respiratory care by including curricular content with objectives related to the acquisition of skills in one or more of the following: management, education, research, and advanced clinical practice (which may include an area of clinical specialization). Instruction occurs at the CBC Health Science Center in Richland, WA, as well as in partnering clinical facilities across the region.

Students receive instruction in cardiopulmonary anatomy and physiology, respiratory assessment, ventilator management, pulmonary diagnostics, pharmacology, and patient education. Graduates of the program will be eligible to sit for the national credentialing examinations offered by the National Board for Respiratory Care (NBRC), pending programmatic accreditation by the Commission on Accreditation for Respiratory Care (CoARC).

Respiratory Therapy Bachelor of Applied Science (BAS) Degree

Admission to program is competitive. Students must first complete a CBC application and submit official transcripts from all colleges attended. Separate application to the Respiratory Therapy program is required and occurs annually for the fall cohort. A formal information session is offered prior to application.

Students should complete all required prerequisite and general education coursework before applying. These courses contribute to the Admission Index Score used in the selection process. All respiratory therapy prerequisite courses must be passed with a 2.0 or better.

Required Prerequisite Courses:

- CHEM& 121 – Intro to Chemistry with Lab
- CHEM& 122 – Intro to Organic Chemistry with Lab
- BIOL& 241 – Human Anatomy & Physiology I with Lab
- BIOL& 242 – Human Anatomy & Physiology II with Lab
- BIOL& 260 – Microbiology with Lab
- MATH& 146 – Introduction to Statistics
- HSCI 147 – Medical Terminology
- ENGL& 101, 102, or 235 – English

- CMST& 101, 210, 220, or CMST 260 – Communication Studies
- PSYC& 100 or 200 – Psychology

Students accepted into the program must also meet the following requirements:

- Required immunization records
- Current American Heart Association BLS CPR certification
- Satisfactory criminal history background check through a college-approved vendor

Students are encouraged to meet with a Completion Coach and attend an information session before applying. More information, including upcoming information session dates, can be found at columbiabasin.edu/respiratory or by calling 509-544-8300.

SSCI Social Science

The Social Science department offers courses in undergraduate social science research.

SOWK Social Work

Social work is a dynamic profession dedicated to improving lives, strengthening communities and fostering social justice. Through education, public health initiatives, human welfare programs and advocacy, social workers empower individuals and families to reach their fullest potential.

At its core, social work is about connection — linking people to critical resources, championing equity and driving meaningful change. The field spans a wide range of roles, including psychological services, child protection, policymaking and community development, among many others.

Students in this program develop strong communication skills, critical thinking abilities and expertise in resource management and advocacy. Graduates often continue their education and go on to rewarding careers as social workers, counselors, case managers, probation officers, community outreach coordinators, consultants and mediators.

Take the first step toward a career in social work and prepare for transfer with our courses.

SOC Sociology

The Sociology department offers courses related to the scientific study of collective life. In addition to our introductory courses, we cover a range of topics in more depth, including gender studies, crime and deviance, global studies and health and illness.

SPAN Spanish

Our Spanish courses offer student-centered instruction that focuses on communicating effectively in Spanish, appreciating the Hispanic culture and recognizing linguistic and cultural connections between the Spanish-speaking parts of the world and the United States. CBC offers first- and second-year Spanish, Spanish for Spanish Speakers and a Spanish Medical Interpreter Program.

Information about the Spanish placement test (WebCAPE) and how to earn prior learning credits are available on the World Languages webpage. Heritage learners of Spanish are strongly encouraged to enroll in SPAN 205, SPAN 206 or SPAN 207.

INTP Spanish Community Interpreting

The Spanish Community Interpreting department is focused on developing professional interpreters who can serve the Hispanic community in all of the places where they access care and services. Our flexible programming is designed to start all students off with four core courses that lay the foundation for multiple career paths in interpreting. Then, students select a specialty track, consisting of additional courses that further develop their knowledge and skills. This program prepares students for professional certification and for launching their career in their chosen pathway. All students will benefit from hands-on, clinical experiences that will boost their confidence, hone their skills and help them understand and apply the concepts they learn in class. Once students have successfully completed their first short-term certificate, they will be able to stack additional certificates by completing only the additional specialty-track courses. We currently offer a short-term certificate in Spanish Medical Interpreting, with additional certificates in Spanish Educational Interpreting and Spanish Social Services Interpreting coming soon!

SPT Sterile Processing Technician

The Sterile Processing Technician program prepares students for an entry-level career in sterile processing and materiel management. Sterile processing technicians perform decontamination and sterilization procedures required to ensure proper reprocessing of invasive therapeutic and diagnostic equipment, surgical instrumentation and medical supplies. Additional duties include assembly and inspection of surgical instruments, maintenance and delivery of patient equipment, inventory control and supply ordering and preoperative case preparation.

Sterile processing technicians are typically employed in hospital central service, sterile processing and material management departments, but may also be stationed in outpatient surgery centers and other medical device related facilities. Many sterile processing technicians work a 40-hour week, but may also need to be available during weekends, evenings, holidays or on-call.

CBC's Sterile Processing Technician program is a two-quarter program beginning in winter quarter. The Sterile Processing Technician program is a selective admission program. You must apply to the College and to the program. Applicants are screened according to timely coursework completion and grades completed through fall quarter. During the course of the program, enrolled students will gain extensive hands-on training and acquire 400 hours of applied technical experience in clinical settings. Upon successful completion of all certificate and program requirements, students will
obtain a Sterile Processing Technician Short-Term Certificate. Graduates of the Sterile Processing Technician program are eligible for certification through the Healthcare Sterile Processing Association (HSPA, formerly IAHCSMM).

SURG Surgical Technology

The Surgical Technology program prepares students to work as an effective surgical team member. Students learn a variety of skills in lecture, experiential lab and practical settings. These skills include perioperative patient care, aseptic technique, operative procedures, surgical instrumentation and sterile processing. Clinical practice locations include hospitals and surgical centers.

Admission eligibility requirements include successful completion of the following prerequisite and general education support courses:

- BIOL& 241 Human A&P 1 w/ Lab 5 to 6 credits
- BIOL& 242 Human A&P 2 w/ Lab 5 to 6 credits
- BIOL& 260 Microbiology w/ Lab 5 to 6 credits
- CMST& 210 Interpersonal Communication **or** CMST& 220 Public Speaking **or** CMST 260 Multicultural Communication 5 credits
- HSCI 147 Medical Terminology 5 credits
- MATH& 146 Introduction to Stats 5 credits
- PSYC& 100 General Psychology 5 credits

Application to the Surgical Technology program is submitted through the Health Sciences Division office from June 21 until July 21 every year.

The program provides a One-Year Operating Room Aide Certificate to students completing the first quarter of the program. Graduates of the Surgical Technology program earn an Associate in Applied Science degree in Surgical Technology and are eligible for national board certification through the National Board of Surgical Technology and Surgical Assisting (NBSTSA). The NBSTSA Certified Surgical Technologist (CST) examination first-time pass rate for graduates of the CBC Surgical Technology program is 70%*.

Applicants are required to provide the following documentation:

- A current American Heart Association Basic Life Support (CPR/BLS) certification card for Healthcare Providers

Students meeting the admissions criteria may be required to attend a formal interview with Surgical Technology program faculty. Accepted students will be mailed a letter confirming fall registration and once admitted into the program, each student will be responsible for providing documentation of the following additional requirements:

- Program specific immunization records (details provided with admission into the program)
- Satisfactory criminal history background check using a college-approved vendor. Criminal history background information is required of Health Science students. Information obtained will be considered in determining student eligibility to complete clinical coursework. Inability to participate in clinical experiences due to the information obtained from the background check may result in the students' inability to satisfactorily complete program degree requirements. Any infraction while enrolled in the Surgical Technology program should be self-reported to the program director. Questions regarding the background policy should be directed to the Dean for Health Sciences at 509-544-8310.
- Successful drug testing is required by clinical facilities.

For more information regarding the Surgical Technology program, please visit the Surg Tech webpage or contact the Health Sciences Division at 509-544-8354 or 509-544-8300.

*Source: 2023 ARC/STSA Annual Report.

DRMA Theatre

Theatre offerings at Columbia Basin College are designed:

- To meet the requirements for the first two years of a Bachelor of Arts degree in Theatre at four-year institutions.
- To enrich students learning experiences by having them work with state of the art technologies, performance methodologies and learning industry techniques.
- To provide extracurricular activity through performances for the college and community.
- To enrich the theatre going public in areas of Equity and Diversity.

Career opportunities include teaching theatre, professional acting, directing, designing, stage management and technical theatre. Theatre classes may also better prepare students for careers in law, public relations, advertising, teaching effectiveness and other careers where speaking or performing for the public is important. It is not necessary to be a theatre major to take theatre classes or to participate in CBC shows.

WT Welding Technology

Welding Technology offers certificates and an AAS degree that includes both theoretical and practical training in basic and advanced welding techniques. Areas covered include, shield metal arc welding, gas flu and cored arc welding, metal arc welding, gas tungsten arc welding, structural welding, pipe welding and fabrication.

Students who graduate with an AAS in Welding Technology will be able to:

- Demonstrate the ability to pass an all position v-groove welder qualification test in accordance to ASME section IX code standards.
- Demonstrate the ability to pass an all position pipe welder qualification test in accordance to ASME section IX code standard.
- Demonstrate proficient and safe use of Oxy-Acetylene cutting equipment and procedures.
- Demonstrate proper set-up and use of welding and fabrication equipment.
- Troubleshoot and solve basic welding, fabrication, and equipment problems.
- Analyze, interpret, and apply information found on structural and piping prints.
- Interpret and apply industrial drawing concepts to clearly communicate information in a drawing format.
- Apply fabrication principles in both structural and piping fabrication.
- Research and apply knowledge of welding information as needed in welding and fabrication applications.
- Exhibit and maintain essential employability behaviors.
- Apply math principles to solve fabrication problems.

Students who graduate with a One Year Certificate in Welding Technology will be able to:

- Demonstrate proficient and safe use of Oxy-Acetylene equipment and procedures.
- Apply math principals to solve fabrication problems.
- Interpret and apply industrial drawing concepts to clearly communicate information in a drawing format.
- Analyze, interpret and apply information found on structural welding blueprints.
- Apply fabrication principles in structural fabrication.
- Demonstrate the ability to produce structural welds in accordance with ASME section IX code standards.
- Demonstrate proper set up and use of welding and fabrication equipment.

Students who graduate with a Certificate in Welding Technology will be able to:

- Demonstrate proficient and safe use of Oxy-Acetylene equipment and procedures.
- Apply math principles to solve fabrication problems.
- Interpret and apply industrial drawing concepts to clearly communicate information in a drawing format.

WS Women's Studies

CBC offers courses in Women's Studies that focus specifically on the issues, inequalities and possibilities that occur at the intersection of gender, sexuality, race, ethnicity, nationality and class. Students learn various theories and methods to help critically analyze and explore these issues both historically and in contemporary times. Topics of focus include social movements, culture, art and literature.

Courses

Accounting

ACCT 101
Introduction to Accounting [RE] • 5.0 Credits
Students will learn how to integrate accounting principles into a small business environment in order to record and process financial data. Students will also develop financial data for business and managerial decision-making, financial performance presentation, and business planning and tax planning. Students will also gain experience using Excel and QuickBooks as information tools to track and develop business information. Offered in winter quarter. It is recommended that students complete either CS 101 or CA 120, CA 140, CA 150, and CA 170 prior to enrollment.

ACCT 105
Business & Payroll Tax Accounting [RE] • 5.0 Credits
Formerly ACCT 105, BA 105, BUS 105
A study of the various aspects of federal, state, and local taxes levied upon business. Emphasis placed on Federal Income and Social Security tax withholding, sales tax requirements, and various state regulations regarding employee health, safety, unemployment insurance, and business and occupation tax. Students practice completion of various tax reports and maintenance of accurate tax-related records. Offered spring quarter only. **Prerequisite: Completion of ACCT& 202 with a 2.0 or higher, or concurrent enrollment.**

ACCT 107
Federal Income Taxes [RE] • 5.0 Credits
Formerly ACCT 107, BA 107, BUS 107
This course emphasizes tax planning and tax recognition, not tax expertise. Students will be aware of the many issues and general solutions in taxation, including tax considerations in business decision-making, tax effects of business transactions; taxation of compensation; fringe benefits; capital gains; fixed asset transactions; tax credits; alternative minimum tax and passive activity rules, but leaving the detailed tax planning or compliance work for other tax courses. **Prerequisite: Completion of ACCT& 202 with a 2.0 or higher, or concurrent enrollment.**

ACCT 111
Computerized Accounting [RE] • 5.0 Credits
Formerly ACCT 111, BA 111, BUS 111
This course requires students to use QuickBooks to account for service and merchandising businesses. The different modules include Accounts Receivable, Accounts Payable, Payroll, and integration of Microsoft Excel and Word. **Prerequisite: Completion of ACCT& 202 with a 2.0 or higher, or concurrent enrollment.**

ACCT& 201
Principles of Accounting I • 5.0 Credits
Formerly ACCT& 201, BA 251, BUS 251
Fundamentals of accounting as applied to actual business situations. Introduction to the accounting cycle for service and merchandising firms controlling to purchases and sales with business papers, special journals, and subsidiary ledgers. **Prerequisite: Completion of MATH 40 or ABE 52 with a 2.0 or higher, or appropriate placement. It is also recommended that students complete either CS 101 or CA 120 and CA 150 prior to enrollment.**

ACCT& 202
Principles of Accounting II • 5.0 Credits
Formerly ACCT& 202, BA 252
The theory and practice of accounting, including financial statements. Emphasis on partnership and corporate accounting. **Prerequisite: Completion of ACCT& 201 with a 1.0 or better, or instructor permission. It is recommended that students complete either CS 101 or CA 120 and CA 150 prior to enrollment or concurrent enrollment with ACCT& 202.**

ACCT& 203
Principles of Accounting III • 5.0 Credits
Formerly ACCT& 203, BA 253
A continuation of ACCT& 202. Introduction of manufacturing and cost accounting. Analysis of financial statements, budgeting, and cost volume analysis. **Prerequisite: Completion of ACCT& 202 with a 1.0 or higher, or instructor permission. It is recommended that students complete either CS 101 or CA 120 and CA 150 prior to enrollment.**

ACCT 222
Advanced Microsoft Excel [RE] • 5.0 Credits
Formerly ACCT 222, BUS 222
Students will develop advanced business-related spreadsheet skills in developing and analyzing Excel worksheets under common business management scenarios. Topics include formulas, formatting, financial and lookup functions, charts, pivot tables, data tables, and other advanced features used to make business decisions and communicate financial, forecasting, and operational performance. **Prerequisite: Completion of MATH 40 or ABE 52 with a 2.0 or higher, or appropriate placement. It is also recommended that students complete CS 101 prior to enrollment.**

ACCT 257
Governmental Accounting [RE] • 5.0 Credits
Formerly ACCT 257, BA 257, BUS 257
Accounting practices for the growing nonprofit segment of the economy (governmental units, educational institutions, hospitals, etc.) with a comparison to accounting for profit-making organizations. Includes a practice set to be used on microcomputer. **Prerequisite: Completion of ACCT& 201 with a 0.7 or higher.**

ACCT 264
Fraud & Accounting Information Systems [RE] • 5.0 Credits
Formerly ACCT 264, BA 264, BUS 264
This course provides a perspective of Accounting Information Systems through the examination of fraud including various schemes, skimming, and check tampering. Accounting and legal principles provide a context for the big picture of occupational fraud and abuse. The behavioral theory and social factors that motivate perpetrators of fraud are explained. The Systems Understanding Aid (SUA) is an accounting practice set supported with documents to enhance understanding an accounting system.
Prerequisite: Completion of ACCT& 201, ACCT& 202, or ACCT& 203 with a 0.7 or higher.

Administrative Office Technology

AOT 117
Office Orientation [RE] • 4.0 Credits
This class encompasses business ethics, personal values, human relations, and effective communication in an office environment. This course focuses on attaining and retaining entry-level employment.

AOT 142
General Office Procedures [RE] • 5.0 Credits
This class bridges the gap between the classroom and the office by prioritizing work and managing time, preparing realistic office assignments, filing office documents; managing personal information (PIM software); and conducting online research.

AOT 156
Supervised Employment [RE] • 2.0 Credits
Formerly AOT 156, AOT 195
This is a supervised work experience involving the application and practice of skills and principles learned in the classroom. The student will be placed with an employer where the environment will build on the student's area of career interest and prepare them to be productive employees. Instructor permission is required to enroll. Grade is pass/no credit.

Adult Basic Education

ABE 9
Ed Interviewing • 0.5–3.0 Credits
The purpose of this course is to improve learner retention, persistence, and performance through research-proven goal setting, problem-solving, and evaluation, intervention, and self-awareness strategies. $25 per quarter BeDA tuition.

ABE 50
Basic Ged(R) Prep • 1.0–15.0 Credits
Individualized instruction to prepare students to pass the four official GED(R) tests with a total score of 600 points or better. The GED(R) test consists of a battery of four individual tests. The four tests include Language arts-writing, Science, Social Studies, Mathematical Reasoning, and Reasoning Through Language Arts. $25 per quarter BeDA tuition.

ABE 51
ABE Math Level 1 • 1.0–10.0 Credits
Emphasizes development of strategies to effectively solve mathematical problems for high school completion, and college and career readiness. Students meet class objectives through the analysis of numbers, place values, shapes and measurement to solve addition and subtraction problems. Students build their math vocabulary as well as note taking and technology skills. $25 per quarter BEdA tuition.

ABE 52
ABE Math Level 2 • 1.0–10.0 Credits
Emphasizes development of strategies to effectively solve mathematical problems for high school completion, and college and career readiness. Students meet class objectives through the analysis of numbers, place values, shapes and measurement to solve addition, subtraction, multiplication and division problems. Students build their math vocabulary as well as note taking and technology skills. $25 per quarter BEdA tuition.

ABE 53
ABE Math Level 3 • 1.0–10.0 Credits
Emphasizes development of strategies to effectively solve mathematical problems for high school completion, and college and career readiness. Students meet class objectives through the analysis of numbers, place values, shapes and measurement to solve addition, subtraction, multiplication and division problems with whole numbers, decimals, fractions and percents. Students build their math vocabulary as well as note taking and technology skills. $25 per quarter BEdA tuition,

ABE 54
ABE Math Level 4 • 1.0–10.0 Credits
Emphasizes development of strategies to effectively solve mathematical problems for high school completion, and college and career readiness. Students meet class objectives through the use of fractions, percents, ratios, and proportions to solve problems relating to measurements, geometry and basic algebra. Students build their math vocabulary as well as note taking and technology skills. $25 per quarter BEdA tuition.

ABE 60
Advanced Ged(R) Prep • 1.0–15.0 Credits
Individual instruction to enable students to successfully complete all four of the GED(R) tests. Students may already have completed two of the tests and need to pass the two remaining tests. Or the student could have passed all four GED(R) tests but needs to accumulate more points to reach the necessary total score of 600 points. $25 per quarter BeDA tuition.

ABE 61
ABE English Level 1 • 1.0–10.0 Credits
Emphasizes development of strategies to effectively communicate in English for high school completion, and college and career readiness. Students read and report on books, short stories, graphs, maps, and informational text that relate to social studies, science and literature. Students meet composition objectives by writing complete sentences in short answers, notes, and paragraphs. Students build their vocabulary for reading and writing as well as improve spelling and technology skills. $25 per quarter BEdA tuition.

ABE 62
ABE English Level 2 • 1.0–10.0 Credits
Emphasizes development of strategies to effectively communicate in English for high school completion, and college and career readiness. Students read and report on books, short stories, graphs, maps, and informational text that relate to social studies, science and literature. Students meet composition objectives by writing complete sentences in short answers, notes, and paragraphs. Students build their vocabulary for reading and writing as well as improve spelling and technology skills. $25 per quarter BEdA tuition.

ABE 63
ABE English Level 3 • 1.0–10.0 Credits
Emphasizes development of strategies to effectively communicate in English for high school completion, and college and career readiness. Students read and report on college-level readings, graphs, maps, and informational texts that relate to social studies, science, and literature. Students meet composition requirements by composing texts that utilize complex writing patterns. Students research topics based on a focused question, compare texts from multiple sources, evaluate credibility of sources, and learn proper citation skills. $25 per quarter BEdA tuition.

ABE 70
Ged(R) Math • 1.0–5.0 Credits
Individualized instruction to prepare students to pass the official Mathematics Reasoning GED(R) tests. $25 per quarter BeDA tuition.

ABE 90
I-BEST Special Studies • 1.0–10.0 Credits
This course integrates Washington Adult Basic Education ABE level 5 and 6 reading, writing, math, and listening standards and indicators with a college-level course. Example: Child Development Associate certificate, Nursing Assistant Certified, or Phlebotomy. $25 per quarter BeDA tuition.

Agricultural Food Systems

AFS 101
Introduction to Agricultural Systems • 5.0 Credits
Introduction to the disciplines, history, philosophy, theory, and integration of fields of agriculture, food production, manufacturing and distribution, and rural society to define and solve real-world problems. Provides an increased awareness of emerging agriculture in the Columbia Basin including crop management, sustainable agriculture, niche and specialty markets, organic crop and animal production, water management, global issues, technology innovations, financial management, global issues, technology innovations, financial management, bioterrorism, crop insurance programs, emerging commodities, biotechnology, and crop innovations.

AFS 199
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

AFS 201
Agricultural & Food Systems W/ Lab [RE] • 5.0 Credits
Introduction to the development of tools and skills in building, evaluating, and applying systems in agricultural production, food manufacturing and distribution, rural society, and society as a whole. Focus is on the types of systems, construction, and analysis including the history, philosophy, and theory of different agricultural systems. It is recommended that students complete AFS 101 prior to enrollment.

Agriculture

AG 101
Crop Production I Field Crops W/ Lab [RE] • 4.0 Credits
This course covers introduction to principles of crop production, including crop growth, development, yield and quality. Emphasis is placed on applying technology advances in agronomy to active crop-production situations, including basic soils, climate, crop physiology, and breeding. Major field and forage crops grown in the Columbia Basin and Washington state will be covered. Production practices such as planting, maintenance, storage techniques and harvesting will also be covered. $35 science fee.

AG 102
Introduction to Animal Science W/ Lab • 5.0 Credits
Introductory Animal Science including the history, philosophy, and theory of animal husbandry. Types and breeds of livestock, terminology, methods, management systems, techniques of animal and poultry production, and consumer impact are discussed. $35 science fee.

AG 107
Agriculture Safety [RE] • 3.0 Credits
This course is an overview of various hazards associated with agriculture. Hazards examined include machinery, controlled spaces, pesticides, and other items in the agricultural workplace. The course also covers identifying safety hazards, applying procedures, analyzing safety rules and regulations. Emphasis will be placed on safety and worker protection in the agricultural workplace, agricultural pesticide uses and applications, chemical safety, and waste hazards associated with pesticides and fertilizer use. Safety standards for agriculture identified by the Washington State Administration codes (WAC 296-307) will be covered. $35 science fee.

AG 117
Agriculture Mechanics and Machinery W/ Lab [RE] • 4.0 Credits
This course emphasizes agriculture equipment including tractors, planters, harvesters and balers used in modern agriculture. The course also covers economic factors, operation principles, adjustments and maintenance of commonly used machines. Maneuvering, attaching, detaching, and using implements will be covered. $35 science fee.

AG 140
Weed Science W/ Lab [RE] • 4.0 Credits
The course provides a background on weed identification, biology, distribution of weeds, interference in crops, and weed ecology. Weed control by preventive, cultural, biological, mechanical, and chemical means. The course also covers herbicide terminology, equipment calibration, and dosage calculations. $35 science fee.

AG 181
Irrigation Principles and Management W/ Lab [RE] • 4.0 Credits
This course focuses on elements of irrigation including methods, management and the irrigation industry in the Columbia Basin. The course covers irrigation methods, systems, efficiencies, equipment, and their relationship to soils and plants. The course will also cover water scheduling, flow measurement, and irrigation management. Water supply, quality, and issues will also be discussed. $35 science fee.

AG 199
Special Studies [RE] • 1.0–20.0 Credits
A class used to explore new coursework. $35 science fee.

AG 201
Soils W/ Lab [RE] • 5.0 Credits
Formerly AG 201, BIO 201, BIOL 201
A general background and understanding of soils, soil formation processes, soil origins with an emphasis on soil origins in the Pacific Northwest, soil taxonomy, organic matter, water relationships, pH, and biological relationships. $35 science fee. **Prerequisite: This course is cross-listed with BIOL 201. Students completing AG 201 may not receive graduation credit for BIOL 201.**

AG 205
Crop Pests and Diseases W/ Lab [RE] • 4.0 Credits
This course provides an overview of pests, diseases, and nematodes common in the crops of Washington. The course will focus on identification of pests and diseases, study of life cycles, control and management strategies of pests, diseases, and nematodes. The course will cover basic principles of plant pathology, entomology, and nematology. $35 science fee.

AG 210
Applied Agriculture Research [RE] • 2.0 Credits
In the lab, students are directly involved in conducting agricultural research as a member of a research team led by a faculty member. Students have the opportunity to collect and analyze agricultural and environmental data that will be used to make management decisions. Upon completion of this course, students prepare a research paper summarizing their results and present this paper at a scientific meeting or seminar. The lab provides an opportunity for students to be directly involved in a research project. $35 science fee.

AG 221
Introduction to Precision Agriculture [RE] • 3.0 Credits
This course will provide an introduction to Precision Agriculture technologies, covering both the applications and the different

technologies (e.g. geographic information systems (GIS), global positioning systems (GPS), remote sensing systems, variable rate application, drones etc.) that make precision farming possible. This course covers the introductory use of each of these tools in the processes of a precision farming system. Economic and environmental benefits will also be discussed. $35 science fee.

AG 222
Advanced Precision Agriculture W/ Lab [RE] • 4.0 Credits
This course covers unmanned aerial systems (UAS) usage in precision agriculture, including platforms, history and commercial applications. Processes of precision agriculture such as data collection, data analysis, and analysis application will be emphasized. This course also covers Federal Aviation Administration (FAA) regulatory framework, privacy issues, and navigation. $35 science fee. **Prerequisite: Completion of AG 221 with a 2.0 or higher.**

AG 232
Crop Production II Fruit & Veg Production W/ Lab [RE] • 4.0 Credits
This course is designed to provide students with an in-depth understanding of the principles and practices of sustainable fruit and vegetable crop production. Students will learn about soil fertility management, stand establishment, environmental modification, and pest management. $35 science fee.

AG 250
GPS and GIS Applications W/ Lab [RE] • 4.0 Credits
This course applies Global Positioning Systems (GPS) and Geographic Information Systems (GIS) applications such as agriculture, surveying, aviation etc. The course will focus on basics of cartography, geography, map projections, and coordinate systems. Emphasis is on data collection using GPS, transfer data, process field data, analysis, storage/retrieval of data, generating reports and or maps using imaging software. Students will utilize hands-on computer exercises with real farm data to provide a practical experience. $35 science fee. **Prerequisite: Completion of AG 221 with a 2.0 or higher.**

AG 252
Insects of Economic Importance W/ Lab [RE] • 5.0 Credits
Formerly AG 252, BIO 252, BIOL 252
A study designed to introduce students to the breadth and diversity of the science of entomology and an in-depth study of insects including: their diversity; the basics of systematic entomology; insect societies; insect physiology and structures; their ecological relationships with their physical and biotic environments; their population and community level ecology; their effects on human welfare through applied disciplines of medical and agricultural entomology; and the methods by which humans attempt to manage insect populations. $35 science fee. **Prerequisite: This course is cross-listed with BIOL 252. Students completing AG 252 may not receive graduation credit for BIOL 252.**

AG 289
Agriculture Business Concepts [RE] • 5.0 Credits
Designed to address issues pertinent to the agricultural community including global competition for markets, water rights and the environment, agricultural co-ops, immigration, foreign trade, fiscal policy, and working with government agencies. It is intended as a capstone course to bring together several concepts related to agriculture business. $35 science fee.

AG 297
Agriculture Internship [RE] • 3.0 Credits
This course is designed to provide students with major-related, supervised, evaluated practical training work experiences in a community agency, business, or industrial firm. The course involves the application and practice of skills and principles learned in the classroom and in real-world situations. Students will also evaluate agricultural careers and an overview of the types of agricultural employment. Students are graded on the basis of documented learning acquired through hands-on experiences in an actual work setting. $35 science fee. Grade is pass/no credit.

AG 299
Special Studies [RE] • 1.0–20.0 Credits
A class used to explore new coursework. $35 science fee.

AG 304
Investing & Capital Management in Agriculture • 5.0 Credits
Formerly AG 304, AG 430, AMGT 304, AMGT 430
This course covers basic financial tools and principles including short-term and long-term investment decisions and capital management. Topics include financial statement analysis, the time value of money, capital budgeting, the cost of capital, dividend policies, and working capital. A final project is to apply course concepts to a publicly-traded business. This course is cross-listed with AG 304. Students completing AMGT 304 may not receive graduation credit for AG 304. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of BUS& 101 with a 2.0 or better, and acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AG 402
Ag Information & Data Analytics • 5.0 Credits
Formerly AG 340, AG 402, AMGT 340, AMGT 402, HCAD 315, HCAD 402, NRS 315
This course focuses on the information resource of management and introduces the fundamental concepts of data analytics. The course focuses on data analytic methods in framing and answering strategic questions facing decision makers in a variety of business sectors. The course will introduce theories and methods for analysis and communication of various kinds and types of data. This course will introduce various analytical techniques that are practical and feasible while being relevant and ethically and legally viable. The course promotes proficiency with technology and its essential managerial applications. This course is cross-listed with AMGT 402, HCAD 402, and NRS 315. Students completing AG 402 may not receive graduation credit for AMGT 402, HCAD 402, or NRS 315. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. $35 science fee. **Prerequisite: Completion of AMGT 306, BUS& 101, CS 101, ENGL 410 or ENGL 315, and CMST 415, all with a 2.0 or better. Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AG 404
Agriculture Operations Management & Evaluation • 5.0 Credits
Formerly AG 310, AG 404, AMGT 310, AMGT 404, HCAD 310, HCAD 404
This course focuses on the operations level of management within an organization or enterprise. The course highlights the importance of the ongoing daily nature of organizational functionality through areas including capacity planning, inventory management, quality control, and supply chain management. Students are tasked with collaboratively examining an assigned company's operations within their preferred academic and career interests in an empowered student-led process resulting in a comprehensive presentation of information. This course

is cross-listed with AMGT 404 and HCAD 404. Students completing AG 404 may not receive graduation credit for AMGT 404 or HCAD 404. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. $35 science fee. **Prerequisite: Completion of AMGT 300, AMGT 306, BUS& 101, CS 101, ENGL 410 or ENGL 315, and CMST 415, all with a 2.0 or better. Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AG 470
Agriculture Management Internship • 1.0–10.0 Credits
Formerly AG 470, AMGT 470
This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on new experiences in an actual work setting. This course is cross-listed with AMGT 470. Students completing AG 470 may not receive graduation credit for AMGT 470. Instructor permission is required to enroll. $35 science fee. Grade is pass/no credit. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, and instructor approval.**

AG 480
Agriculture Management Capstone • 10.0 Credits
Formerly AG 480, AMGT 480, HCAD 480
This course provides the opportunity for students to demonstrate that they have learned the material and concepts from the program and can apply it in the real world. It provides students the opportunity to do a comprehensive analysis of an on-going business or organization and develop a long range, strategic plan including implementation and recommendations for change or to explore the development of a new entrepreneurial venture and measure its feasibility in a comprehensive manner. Instructor permission is required to enroll. This course is cross-listed with AMGT 480 and HCAD 480. Students completing AG 480 may not receive graduation credit for AMGT 480 or HCAD 480. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. $35 science fee. **Prerequisite: Completion of/concurrent enrollment in AMGT 300, AMGT 301, AMGT 302, AMGT or HCAD 303, AMGT or AG 304, AMGT 306, AMGT 401 or HCAD 401, AMGT 402 or AG 402 or HCAD 402, and AMGT 404 or AG 404 or HCAD 404, all with a 2.0 or better.**

American Sign Language

ASL& 121
American Sign Language I • 5.0 Credits
This course explores American Sign Language (ASL) and Deaf culture, providing students with foundational skills in ASL communication. Students will learn fingerspelling, numbers, essential vocabulary, and sentence structure, allowing them to engage in simple, everyday conversations. Through interactive practice, students will also develop an understanding of ASL grammar, the use of facial expressions and body language, and the cultural and social customs of the Deaf community.

ASL& 122
American Sign Language II • 5.0 Credits
This course builds upon skills developed in ASL& 121 and focuses on expanding expressive and receptive proficiency in American Sign Language. Students will develop greater control of ASL grammar, spatial agreement, classifiers, and storytelling techniques while deepening their understanding of Deaf culture. The course emphasizes immersion, visual learning, and interactive communication in real world contexts.

Anthropology

ANTH& 100
Survey of Anthropology [S/B] • 5.0 Credits
Formerly ANT 101, ANTH& 100
The field of anthropology is the scientific study of people from all periods of time and in all areas of the world. Anthropology, as a discipline, focuses on both the biological and cultural characteristics of our species (Homo sapiens). In this course, students explore this discipline by looking at how each of the major branches of anthropology attempts to answer the basic question: What does it mean to be human?

ANTH 197
Field Experience • 1.0–3.0 Credits
Formerly ANT 197, ANTH 197
A lab class which incorporates methods and techniques used in excavating archaeological and paleontological sites. Students are able to participate on an excavation site dealing with the Ice Age Floods and a mammoth. Grade is pass/no credit.

ANTH 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

ANTH& 204
Archaeology [S/B] • 5.0 Credits
Formerly ANT 130, ANTH& 204
Archaeology is the study of the cultural past of humankind and ANTH& 204 provides an introduction to the field of anthropological archaeology. In this course, students examine the major concepts, theories, and methods of anthropological archaeology that contribute to an understanding of the human past. This course also includes surveys of past cultures from the Americas, Africa, Asia, and Europe.

ANTH& 205
Biological Anthropology [M/S] • 5.0 Credits
Formerly ANT 111, ANTH& 205
Physical Anthropology is the study of human beings from an evolutionary and biological perspective and ANTH& 205 provides an introduction to this sub-field of anthropology. In this course, students examine our own species (Homo sapiens) by looking at the biological basis of life, the processes of evolution, our primate relatives both living and extinct, and the variation seen in modern human populations.

ANTH& 206
Cultural Anthropology [S/B] • 5.0 Credits
Formerly ANT 120, ANTH& 206
Cultural Anthropology is the branch of anthropology that studies the species Homo sapiens from a cultural perspective. This course examines and attempts to explain the diversity and similarity of cultures and peoples throughout the world.

ANTH 214
Biological Anthropology Lab [M/S] • 1.0 Credit
Biological Anthropology focuses on the use of empirical evidence to place humans in perspective within our historical and biological world. The Biological Anthropology laboratory is designed to allow students, through examples and hands-on exercises, to understand the evolutionary processes that have produced modern humans. This course is designed to complement the Biological Anthropology course (ANTH& 205). $11.40 lab fee. **Prerequisite: Completion of ANTH& 205 with a grade of 0.7 or better, or concurrent enrollment in ANTH& 205.**

ANTH& 234
Religion & Culture [S/B] • 5.0 Credits
Formerly ANT 128, ANTH& 234
The cross-cultural study of the relationship between humans and the supernatural world. Unlike other religious studies scholars, anthropologists are more concerned about the relationship and interconnections between people's religious traditions and beliefs, and other aspects of society. The objective of this course is familiarizing students with certain aspects that are common to many of the world's religions. This course explores and analyzes the meaning of myth systems, the importance and meaning of religious symbols, rituals, religious specialists, how different societies organize supernatural powers and entities, and then finally a quick survey of the world's religions. We will do this in order to come to appreciate the significance all religions hold for the people who follow them, and develop a broad definition of religion that enables us to examine myriad systems of belief on equal terms.

ANTH 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Applied Management

AMGT 300
Cross-Cultural Logistics and Global Management • 5.0 Credits
This is a survey course focused on managerial skills development in a global context. The course includes a discussion of modern management¿s functions, resources, and demands for those in supervisory or leadership positions within different cross-cultural organizations. Students are tasked with examining their own perspectives and developing skills of empathy, active listening, and humility to improve managerial performance while also analyzing the management of global supply chains. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of BUS& 101 with a 2.0 or better, and acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 301
Contemporary Issues in Business & Management • 5.0 Credits
Formerly AMGT 301, AMGT 417
A class dealing with current events impacting business and management. Seminars will be presented on contemporary topics related to modern trends in the field where students will be challenged to apply managerial perspectives and skills to identify, diagnose, and address real-world changes. **Prerequisite: Completion of BUS& 101 with a 2.0 or better, and acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 302
Leadership & Tactical Management • 5.0 Credits
Formerly AMGT 302, AMGT 320
This course examines leadership theories and the role of tactical managers. The course explores the concepts from the perspective of middle managers engaged in team development and training. The primary project of the course is a collaborative student-led instructional experience where groups of students develop materials and train their peers on the primary theories of leadership and tactical management. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of BUS& 101 with a 2.0 or better, and acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 303
Human Resources and Organizational Culture • 5.0 Credits
Formerly AMGT 303, AMGT 420, HCAD 303, HCAD 420
This course examines the evolving role of human resource management and its increasing importance as a driver of organizational performance. Students learn about the broad responsibilities of human resource departments, from ensuring compliance with government regulations and handling compensation and benefits, to managing diversity and organizational culture. The importance of learning the business, resisting isolation, effectively communicating reasons for change, and ensuring alignment with the organization's strategic objectives is explored. Students are also introduced to the growing role of data analysis in HR decision-making. This course is cross-listed with HCAD 303. Students completing AMGT 303 may not receive graduation credit for HCAD 303. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of BUS& 101 with a 2.0 or better, and acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 304
Investing & Capital Management • 5.0 Credits
Formerly AG 304, AG 430, AMGT 304, AMGT 430
This course covers basic financial tools and principles including short-term and long-term investment decisions and capital management. Topics include financial statement analysis, the time value of money, capital budgeting, the cost of capital, dividend policies, and working capital. A final project is to apply course concepts to a publicly-traded business. This course is cross-listed with AG 304. Students completing AMGT 304 may not receive graduation credit for AG 304. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of BUS& 101 with a 2.0 or better, and acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 306
Business Planning and Strategy • 5.0 Credits
Formerly AMGT 306, AMGT 360
This course focuses on applying case study analyses to real-world strategic-level corporate and organizational challenges. The course emphasizes the need to use structured approaches to critical thinking to resolve complex high-level managerial challenges. Students repeatedly practice and develop their skills through progressively more challenging case studies in a collaborative environment before finishing the term with an individually produced analysis. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of BUS& 101 with a 2.0 or better, and acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 317
BAS Special Topics • 1.0–5.0 Credits
An opportunity to participate in a class dealing with special topics related to applied management that are not covered in depth in the existing curriculum. Topics chosen relate to emerging issues in management/business or topics of regional interest within the management/business arena. Class must be passed with a 2.0 or better to count for BAS-Applied Management degree. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 389
BAS Independent Study • 1.0–5.0 Credits
A class designed to explore a specific topic of special interest. Students are required to work 55 hours to earn one credit hour. Class must be passed with a 2.0 or better to count for BAS-Applied Management degree. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 401
Legal Issues & Ethics for Managers • 5.0 Credits
Formerly AMGT 330, AMGT 401, HCAD 330, HCAD 401
This course explores the state and federal laws and regulations that affect management behavior and organizational practices in various organizational settings. Material covered includes torts and crimes, traditional and sales and lease contracts, business organizations, employment law, products liability, labor relations, and professional liability. The course will pay special attention to issues surrounding ethics and intellectual property. This course is cross-listed with HCAD 401. Students completing AMGT 401 may not receive graduation credit for HCAD 401. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of AMGT 306, BUS& 101, CS 101, ENGL 410 or ENGL 315, and CMST 415, all with a 2.0 or better. Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 402
Information & Data Analytics • 5.0 Credits
Formerly AG 340, AG 402, AMGT 340, AMGT 402, HCAD 315, HCAD 402, NRS 315
This course focuses on the information resource of management and introduces the fundamental concepts of data analytics. The course focuses on data analytic methods in framing and answering strategic questions facing decision makers in a variety of business sectors. The course will introduce theories and methods for analysis and communication of various kinds and types of data. This course will introduce various analytical techniques that are practical and feasible while being relevant and ethically and legally viable. The course promotes proficiency with technology and its essential managerial applications. This course is cross-listed with AG 402, HCAD 402, and NRS 315. Students completing AMGT 402 may not receive graduation credit for AG 402, HCAD 402, or NRS 315. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: _x0009_ Completion of AMGT 306, BUS& 101, CS 101, ENGL 410 or ENGL 315, and CMST 415, all with a 2.0 or better. Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 403
Public Management & Administration • 5.0 Credits
This senior-level course explores the principles and practices of public management and administration through an applied lens. Students will learn to analyze organizational challenges, synthesize data, and evaluate stakeholder interests to develop effective solutions. The curriculum uses institutions of higher education as a case study, allowing students to apply managerial frameworks to real-world scenarios like budgeting, policy analysis, and strategic communication. This course is designed to equip students with the practical skills needed to navigate complex administrative environments in the public and non-profit sectors. Class must be passed with a 2.0 or better to count for BAS-Applied Management degree. **Prerequisite: Completion of AMGT 306, BUS& 101, CS 101, ENGL 410 or ENGL 315, and CMST 415, all with a 2.0 or better. Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 404
Operations Management & Evaluation • 5.0 Credits
Formerly AG 310, AG 404, AMGT 310, AMGT 404, HCAD 310, HCAD 404
This course focuses on the operations level of management within an organization or enterprise. The course highlights the importance of the ongoing daily nature of organizational functionality through areas including capacity planning, inventory management, quality control, and supply chain management. Students are tasked with collaboratively examining an assigned company's operations within their preferred academic and career interests in an empowered student-led process resulting in a comprehensive presentation of information. This course is cross-listed with AG 404 and HCAD 404. Students completing AMGT 404 may not receive graduation credit for AG 404 or HCAD 404. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of AMGT 300, AMGT 306, BUS& 101, CS 101, ENGL 410 or ENGL 315, and CMST 415, all with a 2.0 or better. Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 470
BAS Internship • 1.0–5.0 Credits
Formerly AG 470, AMGT 470
This course is designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on new experiences in an actual work setting. This course is cross-listed with AG 470. Students completing AMGT 470 may not receive graduation credit for AG 470. Instructor permission is required to enroll. Grade is pass/no credit. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, and instructor approval.**

AMGT 480
Applied Management Capstone • 10.0 Credits
Formerly AG 480, AMGT 480, HCAD 480
This course provides the opportunity for students to demonstrate that they have learned the material and concepts from the program and can apply it in the real world. It provides students the opportunity to do a comprehensive analysis of an on-going business or organization and develop a long range, strategic plan including implementation and recommendations for change or to explore the development of a new entrepreneurial venture and measure its feasibility in a comprehensive manner. Instructor permission is required to enroll. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. This course is cross-listed with AG 480 and HCAD 480. Students completing AMGT 480 may not receive graduation credit for AG 480 or HCAD 480. **Prerequisite: Completion of/concurrent enrollment in AMGT 300, AMGT 301, AMGT 302, AMGT or HCAD 303, AMGT or AG 304, AMGT 306, AMGT 401 or HCAD 401, AMGT 402 or AG 402 or HCAD 402, and AMGT 404 or AG 404 or HCAD 404, all with a 2.0 or better.**

AMGT 489
BAS Independent Study • 1.0–5.0 Credits
A class designed to explore a specific topic of special interest. Students are required to work 55 hours to earn one credit hour. Class must be passed with a 2.0 or better to count for BAS-Applied Management degree. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

Art, Visual

ART& 100
Art Appreciation [H] • 5.0 Credits
Formerly ART 110, ART& 100
A general survey of the visual arts that combines lecture and hands-on activities, with an emphasis on evaluating, analyzing, and interpreting a variety of media, techniques, styles, and themes through historical and cultural perspectives.

ART 111
2D Design • 5.0 Credits
An introduction to the two-dimensional design process. Students explore visual problem solving using fundamental elements, principles, and processes to create and analyze art and design. $11.40 lab fee.

ART 112
3D Design • 3.0 Credits
This course of study is an introduction to the visual and tactile elements and principles that relate to three-dimensional forms in space. Students have the opportunity to work with various materials to create three-dimensional forms in space. Students execute various aesthetic design problems that focus on arriving at a better understanding of a three-dimensional dialogue, applicable to sculpture, architecture, and ceramics, and provides a better understanding of three-dimensionality related to digital art and design. $11.40 lab fee.

ART 113
Drawing I • 3.0 Credits
A basic studio course that focuses on the fundamental skills: observation, composition, development of forms, and personal expression. Surveys a wide range of media and techniques and examines master works of drawing. $11.40 lab fee.

ART 114
Drawing II • 3.0 Credits
A continuation of ART 113 with emphasis on individual direction, composition, color, expanded technique, and media experiences. $11.40 lab fee. **Prerequisite: Completion of ART 113 with a minimum grade of 0.7, or instructor permission.**

ART 115
Life Drawing • 3.0 Credits
A continuation of ART 114 with emphasis on human figures and the rendering of the human face; includes structural anatomy, proportion, composition, and abstraction of these subjects for purposes of individual expression. It is recommended that students complete ART 113 prior to enrollment or have instructor permission. $11.40 lab fee.

ART 116
Art History Ancient World [H] • 5.0 Credits
A global survey of art and architecture, analyzing and comparing the origin, meaning and purpose of art making seen through a variety of ancient cultures.

ART 117
Art History Medieval-Baroque [H] • 5.0 Credits
A global survey of art and architecture, analyzing and comparing the historic meaning, influences and styles from the Global Middle Ages through the 17th century.

ART 118
Art History Modern Times [H] • 5.0 Credits
A global survey analyzing and comparing the various movements, themes and historic influences seen through modern and contemporary times.

ART 198
Special Studies • 1.0–15.0 Credits
Formerly ART 198, ART 199
An experimental class to be used to explore new approaches and applications to studio art.

ART 199
Special Studies • 1.0–15.0 Credits
Formerly ART 198, ART 199
An experimental class to be used to explore new approaches and applications to art theory.

ART 201
Photography I • 3.0 Credits
This course introduces students to the foundations of photography/digital photography and photographic composition through various assignments, case studies, and a final project. Students are introduced to fundamental camera controls and tools used to manipulate or enhance photographic images from image-capture to print. Emphasis is placed on how photography functions as an interpretive medium. Student supplies digital camera and materials. It is recommended that students complete ART 111 prior to enrollment. $30 Art photography ink/supply fee.

ART 202
Photography II • 3.0 Credits
This course further develops the advanced student's technical and interpretive understanding of digital photography. Students choose a photographic topic early in the quarter to investigate and build upon for the remainder of the course. Emphasis is placed on research of historic and contemporary trends, discussion of personal direction, and constructing a photographic portfolio. Student supplies digital camera and materials. It is recommended that students complete ART 111 prior to enrollment. $30 Art photography ink/supply fee. **Prerequisite: Completion of ART 201 with a minimum grade of 1.0, or instructor permission.**

ART 209
Digital Art and Design I • 3.0 Credits
An introduction to digital art and design using industry standard software. With an emphasis on the use of design elements and principles to create digital layouts, imagery, and illustrations using select Adobe Creative Suite programs. $11.40 lab fee.

ART 211
Graphic Design I [RE] • 5.0 Credits
An introductory class in the theory and application of layout, typography, color, and image as it is used in today's advertising and industrial graphics. The course covers the fundamentals of graphic design with an emphasis on creative problem solving through traditional and digital techniques using industry-accepted software. It is recommended that students complete ART 111, ART 113, and ART 209 prior to enrollment. $11.40 lab fee.

ART 212
Graphic Design II [RE] • 5.0 Credits
An intermediate class that expands on the use of theory and refined application of layout, typography, color, and image as it is used in today's advertising and industrial graphics. The course objective is to develop

greater proficiency in graphic design processes and skills to achieve creative solutions through traditional and digital techniques using industry-accepted software. $11.40 lab fee. **Prerequisite: Completion of ART 211 with a 0.7 or higher.**

ART 215
Painting I • 3.0 Credits
An introduction to techniques of painting in oil or acrylic; preparation of wood, canvas, and paper supports; color mixing and application methods. Traditional and experimental approaches to subject matter, composition, and expression. $11.40 lab fee.

ART 216
Painting II • 3.0 Credits
Continuation of ART 215 with greater emphasis on individual development of subject matter, technique, and personal expression. Oil, acrylic, or mixed media. $11.40 lab fee. **Prerequisite: Completion of ART 215 with a 0.7 or higher.**

ART 219
Digital Art and Design II • 3.0 Credits
A continuation of ART 209 to create digital art and designs using industry-standard software. With an emphasis on advanced use of design elements and principles to create digital layouts, imagery, and illustrations using select Adobe Creative Suite programs. $11.40 lab fee. **Prerequisite: Completion of ART 209 with a 1.0 or better.**

ART 220
Sculpture I • 3.0 Credits
A study of three-dimensional form with emphasis on the inter-relationships between space and form through the techniques of modeling, mold-making, and casting. It is recommended that students complete ART 111 and ART 112 prior to enrollment. $11.40 lab fee.

ART 221
Sculpture II • 3.0 Credits
A continuation of ART 220 with emphasis on the techniques of casting, construction, and carving. $11.40 lab fee. **Prerequisite: Completion of ART 220 with a 0.7 or higher.**

ART 222
Ceramics I • 3.0 Credits
A basic introduction to ceramic forms with emphasis on production by hand methods. Consideration of the nature and possibilities of clay, clay body formulation, and introductory glaze testing, as well as loading and firing procedures for bisque and glaze kilns. $11.40 lab fee.

ART 223
Ceramics II • 3.0 Credits
A continuation of ART 222 with special emphasis on wheel technique, glaze formulation, and design of clay forms. $11.40 lab fee. **Prerequisite: Completion of ART 222 with a 0.7 or higher.**

ART 224
Ceramic Sculpture • 1.0–3.0 Credits
A studio course designed to focus on using clay as a sculptural medium. Students develop projects that explore either large scale slab construction, large scale coiling, building effective armatures and supports, and working solid. Other fabricating processes such as mold-making for slip-casting and using forms made on the potter's wheel for sculptural construction are introduced. Students also apply various glazing techniques and firing processes that are appropriate to their sculptural work. $11.40 lab fee.

ART 225
Metals I • 1.0–3.0 Credits
An introduction to the broad range of materials, techniques, and formats characteristic of metal art and jewelry. It is recommended that students complete ART 111 prior to enrollment. $11.40 lab fee.

ART 226
Metals II • 1.0–3.0 Credits
A continuation of ART 225 with emphasis on advanced fabrication techniques, casting, and contemporary metal art and jewelry design. This course explores form as a means of expression for both functional and nonfunctional work. It is designed to develop skill, craftsmanship, and sensitivity to design in working with metal. $11.40 lab fee. **Prerequisite: Completion of ART 225 with a 0.7 or higher.**

ART 230
Professional Practices • 2.0 Credits
This course focuses on preparing the art major for admission into an accredited art program as well as exploring the business aspects of being a professional artist.

ART 241
Illustration I • 3.0 Credits
Illustration is a course that will use a variety of two-dimensional materials to create art with a purpose, theme, and message as seen in advertising, fashion, or graphic novels. $11.40 lab fee.

ART 242
Illustration II • 3.0 Credits
A continuation of ART 241 with emphasis on individual development of subject, technique and concept. This course will create art for a purpose with further exploration in styles, themes and application methods. $11.40 lab fee. **Prerequisite: Completion of ART 241 with a 0.7 or higher.**

ART 243
Illustration III • 3.0 Credits
A continuation of ART 242 with emphasis on the role of illustration within the art world, our global society, and individually. $11.40 lab fee. **Prerequisite: Completion of ART 241 and ART 242, both with a 0.7 or higher.**

ART 250
Studio Problems • 1.0–3.0 Credits
Individual, contracted, advanced study in visual arts theory and practice. Completion of all available studio art within desired area of study and instructor permission is required to enroll. $11.40 lab fee.

ART 251
Studio Problems - Design • 1.0–3.0 Credits
Individual, contracted, advanced study in design. Studio and seminar. Instructor permission is required to enroll. $11.40 lab fee.

ART 252
Studio Problems - Graphic [RE] • 1.0–3.0 Credits
Individual, contracted, advanced study in computer graphics. Studio and seminar. It is recommended that students complete ART 209, ART 211, and ART 212 prior to enrollment. Instructor permission is required to enroll. $11.40 lab fee.

ART 253
Studio Problems - Drawing • 1.0–3.0 Credits
Individual, contracted, advanced study in drawing. Studio and seminar. Instructor permission is required to enroll. $11.40 lab fee.

ART 254
Studio Problems - Painting • 1.0–3.0 Credits
Individual, contracted, advanced study in painting. Studio and seminar. Instructor permission is required to enroll. $11.40 lab fee.

ART 255
Studio Problems - Sculpture • 1.0–3.0 Credits
Individual, contracted, advanced study in sculpture. Studio and seminar. Instructor permission is required to enroll. $11.40 lab fee.

ART 256
Studio Problems - Metals • 1.0–3.0 Credits
Individual, contracted, advanced study in metal arts. Studio and seminar. Instructor permission is required to enroll. $11.40 lab fee.

ART 257
Studio Problems - Ceramics • 1.0–3.0 Credits
Individual, contracted, advanced study in ceramic arts. Studio and seminar. Instructor permission is required to enroll. $11.40 lab fee.

ART 259
Studio Problems - Photography • 1.0–3.0 Credits
Individual, contracted, advanced study in photography, studio and seminar. Instructor permission is required to enroll. $30 Art photography ink/supply fee.

ART 298
Special Studies Lab • 1.0–15.0 Credits
Formerly ART 298, ART 299
An advanced experimental class to be used to explore new approaches and applications to studio art. $11.40 lab fee.

ART 299
Special Studies • 1.0–15.0 Credits
Formerly ART 298, ART 299
An advanced experimental class to be used to explore new approaches and applications to art theory.

Astronomy

ASTR& 101
Intro to Astronomy W/ Lab [M/S] • 5.0 Credits
Formerly AST 101, ASTR& 101
A survey of astronomy including history of astronomy, the solar system, galaxies, cosmology, and current topics. Several night observation sessions are held. Lecture and lab must be taken concurrently. $50 astronomy lab fee. **Prerequisite: A grade of 2.0 or better in MATH 50, 60, or 62, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

ASTR 102
Intro to Astronomy - Part II W/ Lab [M/S] • 5.0 Credits
The second course of an introductory survey of astronomy including star formation, planetary systems formation, star birth and death, Einstein's special relativity model of the universe, galaxies and their evolution, cosmology and current topics. Several night observation sessions are held at the on-campus Moore Observatory. $50 astronomy lab fee. **Prerequisite: A minimum grade of 0.7 in MATH 50, 60, 62, or a higher math class, or appropriate placement, or instructor permission. It is recommended that students complete ASTR& 101 prior to enrollment.**

ASTR 199
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework. $11.40 lab fee.

ASTR 299
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework. $11.40 lab fee.

Automotive Technology

AMT 100
Basic Automotive Maintenance & Lab [RE] • 2.0 Credits
This course is intended for students to get introduced to general automotive systems and service procedures. This course is designed to familiarize students with the major vehicle parts and components, knowledge of basic tools and equipment, and perform basic preventative maintenance procedures. Lab time consists of students applying concepts learned with hands-on experience while working on student-owned vehicles and school mock-ups. This course is for the general student population and is not intended for automotive majors.

AMT 104
Diesel Engine Theory [RE] • 2.0 Credits
This course provides basic knowledge and theory of operation of automotive diesel engines including ignition and fuel systems. $50 Automotive Technology class fee. $11.40 lab fee. **Prerequisite: Completion of AMT 107, AMT 109, AMT 113, and AMT 114, all with a 0.7 or better, or instructor permission.**

AMT 107
Introduction to Automotive Technology I & Lab [RE] • 4.0 Credits
This 3-week course introduces students to automotive shop operations with a primary heavy emphasis on safety in accordance with ASE Education Foundation standards. Instruction focuses on the development and demonstration of foundational safety knowledge and skills required for entry-level automotive technicians. Topics include proper selection and use of personal protective equipment (PPE), recognition and mitigation of workplace hazards, and adherence to established shop safety procedures. Students receive hands-on instruction in the safe use, handling, and storage of basic hand tools and shop equipment. The course also introduces automotive fasteners, including identification and differentiation between SAE and Metric systems. $50 Automotive Technology class fee. $11.40 lab fee. $185 automotive uniform shirt fee. **Prerequisite: Acceptance into the Automotive Technology program, and a grade of 1.0 or better in MATH 100 or a higher math class or concurrent enrollment.**

AMT 113
Introduction to Automotive Technology II & Lab [RE] • 10.0 Credits
This course introduces students to essential automotive service practices with a heavy emphasis on safety, proper procedures, and professional documentation. Students learn customer interaction, vehicle inspection, repair order and estimate preparation, and the use of service information systems to research parts and labor times. Preventive maintenance is covered across major vehicle systems, including engine oil service, transmission/transaxle service, brake fluid service, steering systems, driveline components, battery/starting/charging systems, and basic air

conditioning inspections, using industry-standard safety practices. $50 Automotive Technology class fee. **Prerequisite: Acceptance into the Automotive Technology program, and a grade of 1.0 or better in MATH 100 or a higher math class or concurrent enrollment.**

AMT 119
Automotive Steering and Suspension Systems & Lab [RE] • 7.0 Credits
This course is designed to provide the student with detailed instruction on the design and operating principles maintenance and service of automobile suspension and steering systems including steering geometry and alignment angles. Emphasis is placed on wheel alignment procedures, including computerized four-wheel alignment. Service and diagnostics are stressed including McPherson struts, rack and pinion steering systems, and tire design and applications. New technologies are covered to incorporate electronic steering and in-depth coverage of computerized suspension systems. Students will learn how to diagnose, inspect, and service steering system components using industry-standard equipment. Students will learn how to diagnose inspect, remove, and replace rear-wheel and front-wheel drive suspension components. Students will learn how to perform alignments on front and rear-wheel drive vehicles. Students will work in a manner that exhibits pride in cleanliness, work ethic, and professionalism. $50 Automotive Technology class fee. $11.40 lab fee. $75 ASE testing fee. **Prerequisite: Grade of 2.0 or better in AMT 220 or instructor permission.**

AMT 120
Basic Electrical Systems, Electronics & Lab [RE] • 8.0 Credits
This course provides students with a basic understanding of the theoretical and practical aspects of electricity, diagnosis, and service of automotive electrical systems. Subjects covered will include basic automotive electronic fundamentals including solid-state components such as sensors, actuators, and microprocessors, basic electrical principles, and how malfunctions affect the proper functioning of vehicles' automotive computer circuits and components. Students will learn the use of appropriate diagnostic equipment such as Digital Volt Ohm Meters (DVOM) and service information. Upon completion of this course, students will be familiar with the terminology, basic theory, diagnostics, removal, and installation procedures used on automobiles and light trucks. $50 Automotive Technology class fee. $11.40 lab fee. **Prerequisite: Completion of AMT 107 and AMT 113 with a minimum grade of 2.0, and MATH 100 or a higher math class with a minimum grade of 1.0, or appropriate placement, or instructor permission.**

AMT 123
Automotive Brake Systems & Lab [RE] • 7.0 Credits
This course is designed to provide a comprehensive understanding of the theory coverage of design, operating principles, diagnosis, maintenance, and service of automotive brake systems and traction control. Emphasis will be placed on the mechanical portion of the disc and drum braking system, servicing the disc and drum brakes with measuring and resurfacing included. Anti-lock Braking (ABS) is covered from operating principles through diagnosis and service. Students will learn how to diagnose mechanical and hydraulic problems within the braking system and learn how to diagnose computer-controlled problems within the Anti-Lock (ABS) and traction control systems. Students will work in a manner that exhibits pride, cleanliness, work ethic, and professionalism. $50 Automotive Technology class fee. $11.40 lab fee. $75 ASE testing fee. **Prerequisite: Completion of AMT 120 with a 2.0 or better, or concurrent enrollment, or instructor permission.**

AMT 129
Engine Systems, Servicing & Lab [RE] • 8.0 Credits
The focus of this course is to provide the students with a detailed study of the modern internal combustion gasoline engine. Topics include basic principles of design and operation including fuel and ignition systems. Students will learn the components of the internal combustion engine and how they operate. Students will learn the theory and operation of lubrication and cooling systems. Students will gain an understanding of the diagnosis, service, and operation of the internal combustion engine. Students will learn how to diagnose various engine concerns through visual and auditory inspection. Emphasis will be on the theory, operation, and servicing of the internal combustion engine and systems. $11.40 lab fee. $75 ASE testing fee. $50 Automotive Technology class fee. **Prerequisite: Completion of AMT 220, AMT 230, and AMT 233 with a 2.0 or better, or instructor permission.**

AMT 133
Engine Repair and Rebuild & Lab [RE] • 7.0 Credits
This course is designed to give students a detailed breakdown of the gasoline engine for repairs and rebuilding. Students will learn how to disassemble, inspect, and measure various engine components after disassembly. Students will learn the proper procedure for engine, cylinder heads, and valve train reassembly. Students will learn the procedures needed for engine removal and installation. Upon completion of this course, students will be familiar with the terminology, repair, and removal and installation procedures for the gasoline engine. $50 Automotive Technology class fee. $11.40 lab fee. **Prerequisite: Completion of AMT 220 with a 2.0 or better, or instructor permission.**

AMT 140
Automotive Internship [RE] • 1.0–5.0 Credits
This internship program is designed to prepare the student for automotive industry employment. Students are expected to apply learned skills and training to be a productive employee. The employer is expected to place students in an environment that builds on coursework learned to enhance their knowledge of working in the automotive industry. The student will work in a manner that exhibits pride, cleanliness, work ethic, and professionalism. $11.40 lab fee. Grade is pass/no credit.

AMT 193
Independent Study [RE] • 1.0–15.0 Credits
A class used to explore new coursework or for a specific topic of special interest. Grade is pass/no credit.

AMT 199
Special Studies [RE] • 1.0–10.0 Credits
A class used to explore new coursework.

AMT 220
Advanced Electrical and Troubleshooting & Lab [RE] • 8.0 Credits
This combination class/lab is designed to give the student a highly developed understanding of diagnosis, troubleshooting, and service of the advanced automotive electrical and electronic operating systems. Subjects covered will include strategy-based diagnostics, reading and understanding wiring diagrams, circuit diagnosis, lighting systems, body, chassis, and powertrain system descriptions and functions, and vehicle networking. You will learn the proper use of appropriate diagnostic equipment such as oscilloscopes, scan tools, and a digital volt ohm meter (DVOM). Upon completion of this course, students will be familiar with the terminology, basic theory, diagnostic, removal, and installation procedures used on automobiles and light trucks. $50 Automotive Technology class fee. $11.40 lab fee. $75 ASE testing fee. **Prerequisite: Completion of**

AMT 120 with a 2.0 or better, or concurrent enrollment, or instructor permission.

AMT 230
Automatic Transmissions & Lab [RE] • 7.0 Credits
This course has been developed to provide students with the knowledge and skills needed to successfully diagnose and repair automatic transmissions and transaxles. Emphasis is placed on an understanding of the operation of the internal components (hydraulic, mechanical, and electrical), troubleshooting, disassembly, assembly, and testing. Students will learn how to perform necessary diagnostic tests using special equipment such as pressure gauges, digital volt ohm meters (DVOM), scan tools, and oscilloscopes. Students will learn how to perform necessary service, repairs, and adjustments to automatic transmissions and transaxles. Students will work in a manner that exhibits pride, cleanliness, work ethic, and professionalism. $50 Automotive Technology class fee. $11.40 lab fee. $75 ASE testing fee. **Prerequisite: Completion of AMT 220 with a 2.0 or better, and ENGL& 101 or ENGL 103 with a 1.0 or better, or instructor permission.**

AMT 233
Manual Transmission, Drivetrain, & Lab [RE] • 7.0 Credits
This course is designed to provide students a comprehensive coverage of the drivetrain components, including theory, operating principles, diagnosis, service, and repair techniques of the clutch, manual transmissions/transaxles, and differentials. Emphasis will be placed on understanding gearing, levers, hydraulics, component design, troubleshooting, replacement, disassembly, repair, service techniques, and assembly. Students will work with automotive manual transmissions/transaxles, differentials, clutches, driveshafts, and u-joints. Students will learn how to diagnose, inspect, remove, and replace a clutch, students will also learn how to diagnose, clean, inspect disassemble and reassemble a manual transmission/transaxle. Students will learn how to diagnose, clean, inspect, remove, replace, and service front-wheel drive (FWD) systems and components, and rear-wheel drive (RWD) systems and components. Students will work in a manner that exhibits pride, cleanliness, work ethic, and professionalism. $50 Automotive Technology class fee. $11.40 lab fee. **Prerequisite: Completion of AMT 220 with a 2.0 or better, and ENGL& 101 or ENGL 103 with a 1.0 or better, or instructor permission.**

AMT 240
Drivability Diagnostics & Lab [RE] • 9.0 Credits
This course is designed to provide students with knowledge and understanding of the theory, operation, diagnosis, and repair of conventional and computer-controlled systems such as ignition fuel and emissions. Students will learn how to diagnose mechanical and electrical engine components and control systems and determine needed action. Students will learn the advanced use of Automotive scan tools, lab scopes, and other computer-related test equipment. Emphasis is placed on the theory and practice through diagnosis and repair of electronic ignition systems, fuel delivery, and emission control systems. $50 Automotive Technology class fee. $11.40 lab fee. $75 ASE testing fee. **Prerequisite: Grade of 2.0 or better in AMT 220 or instructor permission.**

AMT 243
Heating, Ventilation & AC Systems & Lab [RE] • 5.0 Credits
This course is designed to provide students with a basic understanding of the theory, diagnosis, and service of automotive heating, ventilation, and air conditioning (HVAC) systems. Emphasis is on proper air conditioning recharging techniques and the electrical portion of the HVAC systems. $50 Automotive Technology class fee. $11.40 lab fee. **Prerequisite: Grade of 2.0 or better in AMT 220 or instructor permission.**

AMT 251
Hybrid Operations and Safety [RE] • 3.0 Credits
This combination class/lab is designed to give students an overview of hybrid/high voltage vehicles. The class covers safety, driving characteristics, environmental concerns, and hybrid/high voltage energy principles. $11.40 lab fee.

AMT 252
High Voltage Basic Operations [RE] • 3.0 Credits
This combination class/lab is designed to give students an overview of high voltage batteries, transformers, high voltage wiring, dc-dc converters, safety circuitry, three-phase motors, and high voltage control systems. $11.40 lab fee.

AMT 253
Basic Maintenance and Servicing of Hybrids [RE] • 3.0 Credits
This combination class/lab is designed to give students the theory and hands-on experience to perform basic preventive maintenance of hybrid vehicles. $11.40 lab fee.

AMT 254
High Voltage Diagnostics [RE] • 3.0 Credits
This combination class/lab is designed to give students theories and strategies for diagnosing high voltage and hybrid specific systems. $11.40 lab fee.

AMT 255
Component Replacement [RE] • 3.0 Credits
This combination class/lab is designed to give students theory and hands-on experience of proper removal and replacement of hybrid components. $11.40 lab fee.

Biology

BIOL& 100
Survey of Biology W/ Lab [M/S] • 5.0 Credits
Formerly BIO 100, BIOL& 100
An introductory course in basic biological principles and processes. The lab illustrates the basic concepts discussed in lecture and acquaints students with general laboratory procedures. Primarily for non-science majors. $25 science fee.

BIOL 140
Fundamentals of Botany W/ Lab [M/S] • 5.0 Credits
Formerly BIO 140, BIOL 140
An introductory course in the plant sciences. Includes structure and function of plant cells, tissues, organs; growth, reproduction, diversity, evolution, and ecology. Emphasis on local flora and ecology. Primarily for non-science or agriculture majors. $25 science fee.

BIOL 148
Plant Identification W/ Lab [M/S] • 5.0 Credits
Formerly BIO 148, BIOL 148
Spring wildflowers of eastern Washington with emphasis on the Columbia Basin Region. Techniques in identification, collection, preservation, mounting of preserved specimens, and ecological principles. During the latter part of the quarter, attendance at all-day Saturday field trips is required. $25 science fee.

BIOL& 160
General Biology W/ Lab [M/S] • 5.0 Credits
Formerly BIO 105, BIOL& 160

An introduction to basic cell structure and physiology with emphasis on: function and structure of cell membranes; metabolism and enzyme function; genetics and protein synthesis; genetics of viruses, prokaryotes, and eukaryotes; cell signaling and communication. The use of models, microscope slides, and physiological experiments illustrate cellular structure and function. This course does not satisfy the prerequisite for BIOL& 212 or 213. It is strongly recommended that students complete high school chemistry or CHEM& 121 or higher prior to enrollment, or be concurrently enrolled in CHEM& 121. $25 science fee.

BIOL& 175
Human Biology W/ Lab [M/S] • 5.0 Credits
Formerly BIO 110, BIOL& 175
The biology of the human organism. Evolution, ecology, the functioning of cells, tissues, and the major organ systems form the core of the class. Emphasis is placed on providing students with sufficient background to make informed decisions relating to the biological aspects of the human species. Primarily for non-science majors. $25 science fee.

BIOL 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

BIOL 201
Soils W/ Lab [M/S] • 5.0 Credits
Formerly AG 201, BIO 201, BIOL 201
A course offering students a general background and understanding of soils, soil formation processes, soil origins with an emphasis on soil origins in the Pacific Northwest, soil taxonomy, organic matter, water relationships, pH, and biological relationships. $25 science fee. **Prerequisite: This course is cross-listed with AG 201. Students completing BIOL 201 may not receive graduation credit for AG 201.**

BIOL& 211
Majors Cellular W/ Lab [M/S] • 5.0 Credits
Formerly BIO 111, BIOL& 211
An introductory cell biology lecture and lab course for biology majors, pre-medical, pre-dental, pre-pharmacy, pre-physical therapy, and other pre-professional students planning to transfer to a four-year university. This is the first of a three-quarter series with an emphasis on cell chemistry, structure, metabolism, energetics, cell division, cell signaling, the molecular basis of inheritance and development, and the basis of genetic engineering. Health Science majors are advised to take BIOL& 160. $25 science fee. **Prerequisite: Completion of CHEM& 121 or higher with a grade of 2.0 or better, or completion of a year-long high school chemistry course with a B or better, or concurrent enrollment in CHEM& 161.**

BIOL& 212
Majors Plant W/ Lab [M/S] • 5.0 Credits
Formerly BIO 112, BIOL& 212
Includes the concept of evolution; the origin of life; a survey of prokaryotes, protists, plants, and fungi; plant anatomy and function. Primarily for science majors. $25 science fee. **Prerequisite: Completion of BIOL& 211 with a 2.0 or better.**

BIOL& 213
Majors Animal W/ Lab [M/S] • 5.0 Credits
Formerly BIO 113, BIOL& 213
A survey of the invertebrate and vertebrate animals covering their diversity, structure, and function of organ systems, and the interactions between organisms and the environment. Primarily for science majors. $25 science fee. **Prerequisite: Completion of BIOL& 211 with a grade of 2.0 or better.**

BIOL& 241
Human A&P 1 W/ Lab [M/S] • 6.0 Credits
Formerly BIO 221, BIOL& 241
The structure and functions of systems of the human body; integumentary, skeletal, muscular, and nervous. The use of human models and animals illustrate the systems. $25 science fee. **Prerequisite: A grade of 2.0 or better in BIOL& 160 or BIOL& 211. It is recommended that students also complete CHEM& 121 prior to enrollment.**

BIOL& 242
Human A&P 2 W/ Lab [M/S] • 6.0 Credits
Formerly BIO 222, BIOL& 242
Continuation of BIOL& 241: endocrine, digestive, respiratory, circulatory, lymphatic, urinary, and reproductive systems. $25 science fee. **Prerequisite: Completion of BIOL& 241 with a 2.0 or better.**

BIOL 252
Insects of Economic Importance W/ Lab [M/S] • 5.0 Credits
Formerly AG 252, BIO 252, BIOL 252
A study designed to introduce students to the breadth and diversity of the science of entomology and an in-depth study of insects including: their diversity; the basics of systematic entomology; insect societies; insect physiology and structures; their ecological relationships with their physical and biotic environments; their population and community level ecology; their effects on human welfare through applied disciplines of medical and agricultural entomology; and the methods by which humans attempt to manage insect populations. $25 science fee. **Prerequisite: This course is cross-listed with AG 252. Students completing BIOL 252 may not receive graduation credit for AG 252.**

BIOL 253
Plant Pathology W/ Lab [M/S] • 5.0 Credits
Formerly BIO 253, BIOL 253
An introduction to the organisms causing plant diseases, their identification, and control technologies. Material presented covers the basic principles necessary to develop an adequate understanding of plant disease processes in natural, urban, commercial, and industrial situations. Emphasis is placed on diseases encountered in the Pacific Northwest. $25 science fee.

BIOL& 260
Microbiology W/ Lab [M/S] • 6.0 Credits
Formerly BIO 260, BIOL& 260
Basic principles, concepts, and techniques in the study of bacteria, protists, fungi, and viruses. Concepts of immunity and the role of micro-organisms in medicine. $25 science fee. **Prerequisite: Completion of BIOL& 160 or BIOL& 211 with a grade of 2.0 or better. It is also strongly recommended that students complete CHEM& 121, BIOL& 241, and BIOL& 242 (for nursing majors), or BIOL& 212 and BIOL& 213 (for biology majors) prior to enrollment.**

BIOL 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

Blueprint Reading

BPR 105
Blueprint Reading [RE] • 3.0 Credits
This course is a comprehensive guide to interpreting drawings commonly found in manufacturing. This course is intended as an introduction to understanding blueprints and being able to visualize and understand the intent of the designer or draftsman as presented in a blueprint. The first step in making quality parts or assemblies is interpreting the drawing correctly and applying the given information to the final product.

BPR 106
Blueprint Reading I (WT) [RE] • 5.0 Credits
This course is designed to introduce the welding student to the world of blueprint symbols, facts, and figures. BPR 106 is the first of a two-part series in which students learn the various methods of presenting to the fabricator what the designer wants in the final product. Symbolism for welding structural shapes, types of fittings, their physical make up, material, and dimensioning are covered in the class. The successful student will be an asset to any fabrication shop or when working for the ironworkers or millwrights. **Prerequisite: Completion of DRW 106 and WT 107, both with a 2.0 or better, or instructor permission.**

BPR 110
Basic Blueprints and Drawings [RE] • 3.0 Credits
This course is intended to provide students with information about how to read and interpret information from blueprints, drawings, exploded views, illustrated parts catalogs, assembly drawings, flow diagrams, and schematics.

BPR 204
Blueprint Reading II (MT) [RE] • 3.0 Credits
This course is designed to give students skills and knowledge necessary to read, understand tolerances, and apply geometric dimensioning to machine shop drawings. **Prerequisite: Completion of MT 102 with a 0.7 or higher.**

BPR 206
Blueprint Reading II (WT) [RE] • 3.0 Credits
The second course in the series with the emphasis on pipe isometrics. The course is designed to provide students with the ability to read, draw, and dimension pipe isometrics for fabrication. The successful student will be an asset to any fabrication shop or when working for or with pipefitters or entry level. **Prerequisite: Completion of WT 211 or WT 251 with a 2.0 or higher, or instructor permission.**

Business

BUS& 101
Introduction to Business [S/B] • 5.0 Credits
Formerly BA 101, BUS& 101
As an introduction to business, this course is a critical survey of the theory, principles, and practices of modern business. Functional areas of business, such as entrepreneurship, management, marketing, accounting, and finance are introduced. Students will learn about the breadth of business operations and decision making in a competitive global marketplace. The importance of professional communication in business settings involving diverse stakeholders is highlighted. The increasing reliance on teamwork as a driver of success is also emphasized.

BUS 103
Principles of Sales [RE] • 5.0 Credits
Formerly BA 103, BUS 103
A study in consumer motivation, buyer benefits, overcoming sales resistance, and closing of sales supplemented by sales demonstrations developed and presented in the classroom.

BUS 120
Personal Finance [RE] • 5.0 Credits
Formerly BA 120, BUS 120
In this introductory course students learn a basic foundation of personal finance knowledge and how to apply it to their life. Students learn the fundamentals of planning, analyzing, managing, and investing personal financial resources. This includes practical knowledge and strategies for many real-life scenarios such as purchasing a home, deciding on a credit card, and buying a car. Other important topics include understanding how credit scores work, budgeting, and insurance, as well as a basic overview of investment tools and strategies. Additionally, students learn how to create a budget and a balance sheet and calculate their net worth. Students are challenged to apply this information to their own life situations by developing a personal financial plan.

BUS 165
Investments [RE] • 5.0 Credits
Formerly BA 165, BUS 165
Fundamentals of investing and investment alternatives, including a study of traditional investment vehicles such as stocks, bonds, mutual funds, and more speculative strategies such as options and futures. The course examines investment decision-making within the framework of investment goals including safety, risk, growth, and income. The mechanics of various financial markets are also discussed.

BUS 170
Introduction to Event Planning [RE] • 5.0 Credits
Introduction to event planning including learning about the types of meetings and events, awareness of site location and suitability, logistics of the planning process, importance of market and sales research, and careers options in the event planning industry.

BUS 171
Event Planning Internship [RE] • 1.0–6.0 Credits
To obtain experience in event planning by assisting or being the lead in the completion of an event planning project(s).

BUS 179
Introduction to Entrepreneurship [RE] • 5.0 Credits
This is a survey course in entrepreneurship and business development. This course focuses on starting and developing a new business. Topics include evaluating opportunities and testing the feasibility of creative ideas, selecting and dealing with partners; examining alternative methods of financing, developing the initial competitive strategy, structuring and managing the business through the early survival months, and locating sources of outside help.

BUS 180
Professionalism & Customer Service [RE] • 5.0 Credits
Students will develop the skills necessary to build professionalism in the workplace. These skills will increase the student's ability to communicate with those around them and their ability to interact with customers in an effective and professional manner. Topics include the importance of human connection, types of communication, entering the workplace, working as a team, and delivering effective presentations. This course will

also provide students with the insights needed to grow their interpersonal communication skills to thrive in a diverse workplace.

BUS 185
Leading & Managing Teams [RE] • 5.0 Credits
Students will develop an understanding of their leadership style along with the skills necessary to become a better team leader in today's business setting. Topics include how to build your team, how to improve teamwork and collaboration amongst team members, and how to continuously improve the team's performance. This course will also provide students with the insights needed to align team goals with organizational goals, to avoid the pitfalls of dysfunctional and under-performing teams, and to build trust amongst team members to boost performance.

BUS 190
Leadership Practicum [RE] • 5.0 Credits
Students will develop occupational skills through activities affiliated with National DECA. Students will develop practical marketing, management, and human relation skills through a range of unprepared case studies, as well as prepared events, and practice sessions. Students will participate in service projects and leadership activities with business professionals to gain leadership, communication, and human relations experience. Students will apply leadership principles and practices to the operations and execution of leader responsibilities in a student-led organization.

BUS 199
Special Studies [RE] • 1.0–5.0 Credits
Formerly BA 199, BUS 199
A class used to explore new coursework.

BUS& 201
Business Law • 5.0 Credits
Formerly BA 254, BUS& 201
An introduction to the American legal system including its social, political, and ethical impacts on international and domestic business. The court system and judicial procedures are examined. Class focuses on business and personal liability in the areas of torts, crimes, and contracts, including its application of the Uniform Commercial Code, emphasizing on contractual relations and implications in business forms, employment, agency, regulation, and property.

BUS 210
Managing Personal Finance [RE] • 5.0 Credits
BUS 210 Managing Personal Finance is similar to BUS 120 Personal Finance in content but different in format and is an alternative to BUS 120. The course covers the fundamentals of planning,managing, protecting and investing financial resources. Topics include foundations of financial planning, purchasing assets, managing credit and insurance needs as well as investments. A review of a Personal Finance book is required. The course uses contemporary personal finance articles instead of a text so writing instead of exams is emphasized.

BUS 222
Advanced Microsoft Excel [RE] • 5.0 Credits
Formerly ACCT 222, BUS 222
Students will develop advanced business-related spreadsheet skills in developing and analyzing Excel worksheets under common business management scenarios. Topics include formulas, formatting, financial and lookup functions, charts, pivot tables, data tables, and other advanced features used to make business decisions and communicate financial, forecasting, and operational performance. **Prerequisite: Completion of MATH 40 or ABE 52 with a 2.0 or higher, or appropriate placement. It is also recommended that students complete CS 101 prior to enrollment.**

BUS 250
Management Information Systems • 5.0 Credits
Formerly BA 250, BUS 250
This course is designed to introduce business majors to Management Information Systems (MIS) and demonstrate how these systems are used throughout organizations in theory and application. Ethics and privacy, analytics and contemporary topics are explored. Various software applications are used to create and analyze a business.

BUS 262
Management Principles [RE] • 5.0 Credits
Formerly BA 262, BUS 262
A study of the essentials of management in merchandising, manufacturing, agriculture, agrichemical business, and service businesses.

BUS 263
Principles of Finance [RE] • 5.0 Credits
Formerly BA 263, BUS 263
An examination of the analytical tools used to manage and control finances. Concepts include: acquisition and oversight of working capital; intermediate and long-term financing; and the cost of capital and capital budgeting.

BUS 265
Marketing Principles [RE] • 5.0 Credits
Formerly BA 265, BUS 265
Study of marketing functions from the viewpoint of the manager covering such topics as marketing, distribution channels, price market grid, transportation, and consumer behavior.

BUS 267
Marketing Special Projects [RE] • 1.0–5.0 Credits
Formerly BA 267, BUS 267
A practical and student-centered project oriented class, utilizing marketing skills to develop marketing plans for the Tri-Cities area business and charitable organizations. The use of primary and secondary data collection, research, business start-up planning, profitable business decision-making, and business communication skills as they relate to a final project.

BUS 271
Human Relations in Business [RE] • 5.0 Credits
Formerly BA 271, BUS 271
Study of the individual and his or her growth and development. Course is designed to enable students to establish goals and lead others in the accomplishment of those goals. It is aimed at heightening the student's awareness of leadership and management.

BUS 272
Organization Development [RE] • 3.0 Credits
Formerly BA 272, BUS 272
A critical study of theory, principles, and practices in the development of contemporary business organizations. The focus is on diagnosis in a problem-solution approach. Key issues are triggering, managing, and nourishing change in a turbulent and highly competitive global business environment. Systems understanding, resource, and technology applications are considered.

BUS 295
Business Internship [RE] • 1.0–5.0 Credits
Formerly BA 295, BUS 295

A supervised, paid work experience in a community agency, business, or industrial firm involving the application and practice of skills and principles learned in the classroom. Instructor permission is required to enroll.

Chemistry

CHEM& 110
Chemical Concepts W/ Lab [M/S] • 5.0 Credits
Formerly CHEM& 110, CHM 100
Basic introduction to chemical principles as they apply to the structure and behavior of matter. Illustrations from everyday life, environmental topics, medicine, and biochemistry are used to illustrate chemical principles. Topics include: measurement in science, atoms, molecules, nuclear chemistry, and current chemical issues such as energy, polymers, or foods and drugs among others. Assumes no previous chemistry background. Course intended for non-science majors and may be used to fulfill the general science requirement for the AA degree. $25 science fee. **Prerequisite: A grade of 2.0 or better in MATH 50, 60, or 62, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

CHEM& 121
Intro to Chemistry W/ Lab [M/S] • 5.0 Credits
Formerly CHEM& 121, CHM 110
Fundamentals of inorganic chemistry with special emphasis on the application of principles to the health sciences. Topics covered include: measurements, energy, atomic structure, chemical bonding, nomenclature, mole concept, stoichiometry, gas laws, liquid and solid states, solutions, equilibrium, acid/base chemistry, oxidation-reduction, and nuclear chemistry. Course intended for students who plan to pursue an associate degree or enter a four-year baccalaureate program in the Health Sciences. May also be used to fulfill the general science requirement for the AA degree. $25 science fee. **Prerequisite: A grade of 2.0 or better in MATH 50, 60, or 62, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

CHEM& 122
Intro to Organic Chemistry W/ Lab [M/S] • 5.0 Credits
Formerly CHEM& 122, CHM 120
Fundamentals of organic chemistry with special emphasis on the application of principles to the health sciences. Topics covered include: saturated, unsaturated, aromatic hydrocarbons, alcohols, thiols, phenols, ethers, aldehydes, ketones, carboxylic acids, esters, amines, and amides. Each family of compounds are studied with respect to its structure, behavior, and function. Biochemical applications are integrated into this approach. $25 science fee. **Prerequisite: A grade of 2.0 or better in CHEM& 121, CHEM& 140, or CHEM& 161.**

CHEM& 123
Intro to Biochemistry W/ Lab [M/S] • 5.0 Credits
Formerly CHEM& 123, CHM 130
Topics covered include: optical isomerism; structure and function of carbohydrates, lipids, proteins, and nucleic acids; protein synthesis, enzymes, hormones; biochemical energetics and metabolism of carbohydrates, lipids, and proteins. $25 science fee. **Prerequisite: A grade of 2.0 or better in CHEM& 122 or CHEM& 242.**

CHEM& 140
General Chemistry Prep W/ Lab [M/S] • 5.0 Credits
Formerly CHEM& 140, CHM 101
Introduction to chemical principles, chemical measurements, matter and energy, atomic theory, periodic properties, mole concept, molecules, compounds and chemical bonding, nomenclature and chemical equations, stoichiometry and chemical calculations, gas laws, solids, liquids, phase changes, oxidation-reduction reactions, solutions, reaction rates and chemical equilibrium, and acids/bases. The course is directed toward students needing a knowledge of the fundamentals of inorganic chemistry and planning to obtain a degree in the physical/life science/engineering disciplines. Excellent preparation for CHEM& 161. $25 science fee. **Prerequisite: A grade of 2.0 or better in MATH 70 or 72, or a grade of 0.7 or better in a higher math class (excluding MATH 100, MATH& 107 and MATH& 146), or appropriate placement.**

CHEM& 161
General Chemistry I W/ Lab [M/S] • 6.0 Credits
Formerly CHEM& 161, CHM 111
Fundamental concepts in chemistry including matter, measurement, and dimensional analysis, atomic theory, atomic structure, chemical bonding, chemical formulas and nomenclature, mole concept, chemical reactions and stoichiometry, thermochemistry, electronic structure, periodic trends, molecular geometry, valence bond theory, molecular orbital theory, chemical instrumentation, data acquisition, and data analysis. Problem-solving techniques and critical thinking are fundamental in both the lecture and laboratory. $25 science fee. **Prerequisite: Completion of CHEM& 140 or CHEM& 121 with a grade of 2.0 or better or completion of a year-long high school chemistry course with a B or better.**

CHEM& 162
General Chemistry II W/ Lab [M/S] • 6.0 Credits
Formerly CHEM& 162, CHM 112
Principles of the gas, liquid, and solid states of matter, intermolecular forces, solutions, chemical kinetics, chemical equilibria, chemical instrumentation, data acquisition, and data analysis. Problem-solving techniques and critical thinking are fundamental in both the lecture and laboratory. $25 science fee. **Prerequisite: Completion of CHEM& 161 with a 2.0 or better.**

CHEM& 163
General Chemistry III W/ Lab [M/S] • 6.0 Credits
Formerly CHEM& 163, CHM 113
Spontaneity, entropy, free energy, electrochemistry, nuclear chemistry, introduction to organic chemistry, chemical instrumentation, data acquisition, data analysis, and other special topics in chemistry. Problem-solving techniques and critical thinking are fundamental in both the lecture and laboratory. $25 science fee. **Prerequisite: Completion of CHEM& 162 with a 2.0 or better.**

CHEM 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

CHEM& 241
Organic Chemistry I [M/S] • 4.0 Credits
Formerly CHEM& 241, CHM 221
Stresses nomenclature, structure, stereochemistry, and introduces conceptual material needed to understand reaction mechanisms and synthesis. **Prerequisite: A grade of 2.0 or better in CHEM& 163 and concurrent enrollment in CHEM& 251.**

CHEM& 242
Organic Chemistry II [M/S] • 4.0 Credits
Formerly CHEM& 242, CHM 222
Deals with the major classes of organic compounds with respect to preparations, mechanisms of reactions, syntheses and identification.

Prerequisite: A grade 2.0 or better in CHEM& 241/251, and concurrent enrollment in CHEM& 252.

CHEM& 243
Organic Chemistry III [M/S] • 4.0 Credits
Formerly CHEM& 243, CHM 223
Advanced reaction mechanisms and syntheses. Polymers, macromolecular and biochemical applications, spectroscopy, chromatography, and identification of organic compounds. **Prerequisite: Completion of CHEM& 242 and CHEM& 252, both with a 2.0 or better, and concurrent enrollment in CHEM& 253.**

CHEM& 251
Organic Chemistry I Lab [M/S] • 2.0 Credits
Lab to be taken concurrently with CHEM& 241. $25 science fee.
Prerequisite: Completion of CHEM& 163 with a 2.0 or better and concurrent enrollment in CHEM& 241.

CHEM& 252
Organic Chemistry II Lab [M/S] • 2.0 Credits
Lab to be taken concurrently with CHEM& 242. $25 science fee.
Prerequisite: Completion of CHEM& 241 and CHEM& 251, both with a 2.0 or better, and concurrent enrollment in CHEM& 242.

CHEM& 253
Organic Chemistry III Lab [M/S] • 2.0 Credits
Lab to be taken concurrently with CHEM& 243. $25 science fee.
Prerequisite: Completion of CHEM& 242 and CHEM& 252, both with a 2.0 or better, and concurrent enrollment in CHEM& 243.

CHEM 254
Quantitative Analysis [M/S] • 2.0 Credits
Formerly CHEM 254, CHM 251
Introduction to analytical chemistry. Sampling, statistics, and spreadsheets. Acid-base, precipitation, complexion, and redox equilibria. Activity coefficients and systematic treatment of equilibrium. Volumetric, gravimetric, potentiometric, environmental, and clinical methods of analysis taught in the lab. **Prerequisite: Completion of CHEM& 163 with a 0.7 or higher and concurrent enrollment in CHEM 264.**

CHEM 255
Instrumental Analysis [M/S] • 2.0 Credits
Formerly CHEM 255, CHM 252
Electrochemistry, potentiometry, coulometry, voltammetry, spectrophotometry, atomic spectroscopy, chromatography, capillary electrophoresis, and mass spectrometry. Ion-selective electrode, coulometric, spectrophotometric, atomic spectrometric, solvent extraction, chromatographic, and mass spectrometric methods of analysis taught in the lab. CHEM 255/265 has a heavy emphasis on instrumental methods of chemical analysis. Computer-interfaced instrumentation included in the lab. **Prerequisite: Completion of CHEM 254/264 with a 0.7 or higher and concurrent enrollment in CHEM 265.**

CHEM 260
Biochemistry [M/S] • 5.0 Credits
Fundamentals of biochemistry course covering an introduction to structure and function of proteins, carbohydrates, lipids, and nucleic acids. Essential metabolic pathways, enzymology, transcription, translation, biological membranes, and medicinal chemistry are also covered. The course is designed to provide a foundation in biochemistry for students in science fields, pre-pharmacy and pre-med programs. $25 science fee.
Prerequisite: A grade of 2.0 or better in CHEM& 252 and a grade of 2.0 or better in either BIOL& 160 or BIOL& 211.

CHEM 264
Quantitative Analysis Lab [M/S] • 3.0 Credits
Lab to be taken concurrently with CHEM 254. $25 science fee.

CHEM 265
Instrumental Analysis Lab [M/S] • 3.0 Credits
Lab to be taken concurrently with CHEM 255. $25 science fee.

CHEM 281
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can pursue a special topic of interest, design and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 282
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can pursue a special topic of interest, design and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 283
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can pursue a special topic of interest, design and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 284
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can pursue a special topic of interest, design and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 285
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can pursue a special topic of interest, design and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 286
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can pursue a special topic of interest, design and carry out a project, or participate in undergraduate research (either alone or with other students) in the areas of natural product chemistry, or organic analytical chemistry. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 291
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can participate in undergraduate research (either alone or as part of a team with other students), design and carry out a project, or pursue a special topic of interest in the fields of analytical chemistry, atmospheric science, or chemical education. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 292
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can participate in undergraduate research (either alone or as part of a team with other students), design and carry out a project, or pursue a special topic of interest in the fields of analytical chemistry, atmospheric science, or chemical education. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 293
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can participate in undergraduate research (either alone or as part of a team with other students), design and carry out a project, or pursue a special topic of interest in the fields of analytical chemistry, atmospheric science, or chemical education. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 294
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can participate in undergraduate research (either alone or as part of a team with other students), design and carry out a project, or pursue a special topic of interest in the fields of analytical chemistry, atmospheric science, or chemical education. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 295
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can participate in undergraduate research (either alone or as part of a team with other students), design and carry out a project, or pursue a special topic of interest in the fields of analytical chemistry, atmospheric science, or chemical education. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 296
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Designed for students who want to expand their knowledge of chemistry beyond the basics offered in their regular courses. By arrangement with the instructor, students can participate in undergraduate research (either alone or as part of a team with other students), design and carry out a project, or pursue a special topic of interest in the fields of analytical chemistry, atmospheric science, or chemical education. Note: credits earned in this course cannot be used as a substitute for required credits in other CBC chemistry courses. $25 science fee. **Prerequisite: Instructor permission and completion of CHEM& 140 with a grade of 2.0 or better or high school chemistry with a grade of B or better.**

CHEM 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

Communication Studies

CMST& 101
Introduction to Communication Studies [C] • 5.0 Credits
Students in this survey course will explore the theory and practice of fundamental communication skills and strategies. This course emphasizes investigation and understanding in three core settings: public speaking communication, small group communication and interpersonal communication. Ancillary fields of multicultural communication and mass media will be examined. Students will also learn to prepare, deliver and critique effective presentations.

CMST& 102
Intro to Mass Media [S/B] • 5.0 Credits
Formerly CMST& 102, JOR 100

This course offers an overview of historical, cultural, economic, and social issues affected by the development and continued evolution of mass media. Media products analyzed will be both traditional (print, audio, film, etc.) and evolving (digital). Upon completing this course, students will be conscious of how viewpoints are shaped by the media and be more critical consumers of media products.

CMST 103
Workplace Communication [RE] • 3.0 Credits
Formerly CMST 103, SPE 103
Students in the workforce are able to develop a toolbox of communication strategies and techniques. These tools include interviewing, customer service, cultural diversity, and resolving conflicts topics.

CMST 104
Speech Essentials [C] • 3.0 Credits
Formerly CMST 101, CMST 104, SPE 101
This is a basic course in public speaking. The goal of this course is to introduce, practice, and become comfortable speaking in front of people in the workplace and in the community. This course is recommended for students with no previous speech experience. Students are taught different forms of public speaking, learn to be more effective communicators, and learn how to organize their ideas for effective and efficient oral communication. Credit not granted for both CMST 104 and CMST& 220.

CMST 108
Voice and Articulation [RE] • 3.0 Credits
Formerly CMST 108, SPE 108
An introduction to problems of pronunciation and enunciation. Through voice and articulation techniques and the use of the international phonetic alphabet, students gain basic knowledge of phonetics and anatomy of speech. Individual attention is given to minor speech problems.

CMST 110
Communication Behavior [C] • 3.0 Credits
Formerly CMST 110, SPE 110
An introduction to the basic elements that impact our communication with each other. The course is designed to illustrate the reasons for communication failures in two-party and small group situations. Among other areas, active listening, conflict communication, self-esteem, and assertiveness are covered. Credit not granted for both CMST 110 and CMST& 210.

CMST 141
Debate I [RE] • 2.0 Credits
Formerly CMST 141, SPE 141
Provides investigation and practice in oral problem-solving through debate format and impromptu speaking. Includes principles of argumentation and analysis of propositions; use of tests of evidence, reasoning, and logic; detection of fallacies, structure of arguments, and methods of refutation and rebuttal. Students are expected to attend a minimum of two debate tournaments. It is recommended that students complete CMST 104 prior to enrollment.

CMST 142
Debate II [RE] • 2.0 Credits
Formerly CMST 142, SPE 142
Provides investigation and practice in oral problem-solving through debate format and persuasive speaking. Includes principles of argumentation and analysis of propositions; use of tests of evidence, reasoning, and logic; detection of fallacies, structure of arguments, and methods of refutation and rebuttal. Students are expected to attend a minimum of two debate tournaments. It is recommended that students complete CMST 104 prior to enrollment.

CMST 143
Debate III [RE] • 2.0 Credits
Formerly CMST 143, SPE 143
Provides investigation and practice in oral problem-solving through debate format and extemporaneous speaking. Includes principles of argumentation and analysis of propositions; use of tests of evidence, reasoning, and logic; detection of fallacies, structure of arguments, and methods of refutation and rebuttal. Students are expected to attend a minimum of two debate tournaments. It is recommended that students complete CMST 104 prior to enrollment.

CMST 198
Special Studies [RE] • 1.0–15.0 Credits
Formerly CMST 198, CMST 199
A class used to explore new coursework.

CMST 201
Studies In Media & Culture: Rotating Genre Study [RE] • 5.0 Credits
Introduces students to genre-based narrative theories in mass media studies. Each quarter a particular genre of media is selected and students critically analyze a given set of mass media artifacts, possibly including films, television shows, video games, advertisements, books, music videos, or toys. Based on this analysis, students learn to criticize and practically engage the ideologies inherent in their surrounding media environments.

CMST& 210
Interpersonal Communication [C] • 5.0 Credits
Formerly CMST& 210, SPE 111
This course is recommended for students seeking to improve their communication with friends, family, and co-workers. It is designed to heighten the students' awareness of personality styles and communication behaviors, and their respective impact on interpersonal and group communication. Credit not granted for both CMST 110 and CMST& 210.

CMST& 220
Public Speaking [C] • 5.0 Credits
Formerly CMST& 220, SPE 102
This is a basic course in speech that expands beyond the three-credit requirement for an AA degree. The goal of this course is to introduce, practice, and become comfortable speaking in front of people in the workplace and in the community. This course is recommended for students with no previous speech experience. Students are taught different forms of public speaking. Students learn to be more effective communicators and organize their ideas for effective and efficient oral communication. Credit not granted for both CMST 104 and CMST& 220.

CMST 240
Leadership Development [RE] • 5.0 Credits
Formerly CMST 240, SPE 240
A study in theory and practice to develop individual leadership skills for the students' personal, professional, and academic lives. Includes substantial experiential learning opportunities to practice leadership in action. **Prerequisite: Completion of ENGL& 101 with a 0.7 or better, or instructor permission.**

CMST 241
Applied Leadership I [RE] • 2.0 Credits
Formerly CMST 241, SPE 241
This course explores leadership skills, concepts, and theories as it relates to student involvement on campus.

CMST 242
Applied Leadership II [RE] • 2.0 Credits
Formerly CMST 242, SPE 242
A continuation of CMST 241, this course explores leadership skills, concepts, and theories as it relates to student involvement on campus.

CMST 243
Applied Leadership III • 2.0 Credits
Formerly CMST 243, SPE 243
A continuation of CMST 242, this course explores leadership skills, concepts, and theories as it relates to student involvement on campus.

CMST 246
Oral Interpretation [RE] • 5.0 Credits
Formerly CMST 246, SPE 246
Students are taught to use their voices more effectively for character interpretation and presentation. Demonstrations, class exercises, and oral reading assignments are employed.

CMST 256
PARL Procedures [RE] • 1.0–2.0 Credits
Formerly CMST 256, SPE 253
The theory and study of parliamentary procedures.

CMST 260
Multicultural Communication [C] • 5.0 Credits
Formerly CMST 260, SPE 260
Multicultural Communication teaches students culturally-sensitive methods of identifying basic problems involving communication failures across ethnic and racial settings. Students also learn to apply various multicultural approaches to behavior modification, racism, sexism, the valuing of cultural diversity, collaboration, and the move toward inherent pluralism. **Prerequisite: Completion of ENGL& 101 with a 0.7 or better.**

CMST 298
Special Studies [RE] • 1.0–15.0 Credits
Formerly CMST 298, CMST 299
A class used to explore new coursework.

CMST 320
Health Communication • 5.0 Credits
The purpose of this course is to develop a deeper understanding of how health communication concepts, theories, research methods, cases, and other practices can be applied to real-world health issues and problems. You will identify and develop ways in which practitioners can better the lives of those they support through effective and efficient communication. In this course, you will learn about the field of health communication and the approaches and action areas used to plan, implement, and evaluate health communication. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

CMST 415
Applied Professional Communication • 5.0 Credits
Students will study and apply effective professional workplace communication principles. Concepts include awareness and application of interpersonal and multicultural communication skills, leadership styles and application, small group dynamics, problem-solving, decision making and conflict management. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

Computer Applications

CA 100
Introduction to Microcomputers • 4.0 Credits
Introduces hardware and software concepts, operating systems and/or interface systems, Internet access, basic word processing, and spreadsheet software through hands-on experience. Keyboarding experience is recommended. $11.40 lab fee.

CA 101
Introduction to Keyboarding [RE] • 2.0 Credits
Formerly AOT 101, BT 101, CA 101
This course is designed for students with limited or no keyboarding skills. Students will learn the fundamentals of touch typing of letters, numbers, symbols, and operational keys using a computer. $11.40 lab fee.

CA 120
Introduction to Computer Applications [RE] • 3.0 Credits
This course is designed for students with limited or no computer skills. Students will gain hands-on experience with personal computer hardware, the Windows operating system, and file management systems. By the end of the course, students will possess the digital literacy skills needed to excel in both academic and professional environments. $11.40 lab fee.

CA 140
Introduction to Microsoft Word [RE] • 1.0 Credit
Introductory class to Microsoft Word, a word processing software application that enables you to easily create both simple and complex documents. $11.40 lab fee.

CA 145
Intermediate Microsoft Word Processing [RE] • 2.0 Credits
Formerly CA 145, CS 107
his course provides students with an understanding of basic and intermediate Word processing functions and applications using Microsoft Word. You will learn how to create and edit documents for a variety of purposes and situations including professional-looking reports, multi-column newsletters, resumes, and business correspondence. Upon completion of this class, you will have the opportunity to earn the Microsoft Office Specialist Certification (MO-100). It is recommended that students complete CA 140, CA 100, or CS 101 prior to enrollment.

CA 150
Introduction to Microsoft Excel [RE] • 1.0 Credit
Introductory class to Microsoft Excel, a spreadsheet application typically used to display and manipulate numerical data. $11.40 lab fee.

CA 155
Intermediate Microsoft Excel [RE] • 2.0 Credits
Formerly CA 155, CS 108
This course provides students with an understanding of the fundamentals of creating and managing worksheets and workbooks using Microsoft Excel. You will learn how to create workbooks for a variety of purposes including professional-looking budgets, financial statements, team performance charts, sales invoices and data-entry logs. Upon completion of this class, you will have the opportunity to earn the Microsoft Office

Specialist Certification (MO-100). It is recommended that students complete CA 150, CA 100, or CS 101 prior to enrollment.

CA 160
Introduction to Microsoft PowerPoint [RE] • 1.0 Credit
Introductory class to Microsoft PowerPoint, a presentation software application that allows you to combine text and graphics for on-screen presentations. $11.40 lab fee.

CA 165
Intermediate Microsoft PowerPoint [RE] • 2.0 Credits
Formerly CA 103, CA 165
This course provides students with the fundamentals to create, edit and enhance presentations and slideshows using Microsoft PowerPoint. You will learn how to create and manage presentations, insert and format shapes and slides, create slide content, apply transitions and animations and manage multiple presentations. Upon completion of this class, you will have the opportunity to earn the Microsoft Office Specialist Certification (MO-100). It is recommended that students complete CA 160 or CS 101 prior to enrollment.

CA 170
Introduction to Microsoft Outlook [RE] • 1.0 Credit
Basic concepts of learning how to become more effective in your communication through understanding of email features and working with messages; how to view and manage your calendar, create/group contacts, schedule appointments, events, and tasks, and use of reminder options. $11.40 lab fee.

CA 199
Special Studies [RE] • 1.0–5.0 Credits
A class used to explore new approaches to software applications.

CA 299
Special Studies [RE] • 1.0–5.0 Credits
A class used to explore new approaches to software applications.

Computer Science

CS 101
Intro to Computers & Information Technology • 5.0 Credits
CS 101 is a five-credit introductory class designed to meet the needs of all students as defined in CBC's "Using Information Technology & Tools Student Learning Outcome." The class emphasizes the cognitive aspects of dealing with Information Technology (IT): evaluating information, learning practical IT skills, solving problems, and dealing with information-related issues such as privacy, security, ethics, etc. Students also learn computer basics using Windows, Word, Excel, PowerPoint, email, and Internet skills to locate, present, and report information. $35 virtual desktop fee. **Prerequisite: A grade of 2.0 or better in either MATH 40, MATH 50, or ABE 52, or concurrent enrollment in MATH 50, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 102
Programming Fundamentals [M/S] • 5.0 Credits
An introduction to programming using current technologies. It is designed for those with little or no programming experience. Topics include: program development cycle, fundamentals of programming and logic, decisions, repetitions, controls, functions, and procedures. $35 virtual desktop fee. **Prerequisite: A grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

CS 106
Database Systems • 5.0 Credits
This course introduces the fundamentals of relational database management, focusing on how databases store, organize, and retrieve data. Students learn to create databases, build tables, define relationships, query and maintain data, and develop advanced queries. The course includes creating forms, reports, and custom interfaces; automating tasks with macros; analyzing and integrating data; and applying essential techniques for database security and administration. $35 virtual desktop fee. **Prerequisite: A grade of 2.0 or better in either MATH 40, MATH 50, or ABE 52, or a grade of 1.0 or better in a higher math class, or appropriate placement. It is also recommended that students complete CS 101 with a 2.5 or better prior to enrollment.**

CS 117
Computer Ethics • 2.0 Credits
Covers essential topics of information and technology ethics. Students will understand what to do and what not to do as a user and an employee. Topics include: ethics and information technology, IT configured societies, information flow, privacy and surveillance, digital intellectual property, and professional ethics in computing. Students work in small groups to discuss important issues based on scenarios given. $35 virtual desktop fee. **Prerequisite: A grade of 2.5 or higher in CS 101 or concurrent enrollment in CS 101, and a grade of 1.0 or higher in ENGL 99 or a higher ENGL class or placement above ENGL 99.**

CS 118
Customer Service [RE] • 3.0 Credits
Helps students develop the skills needed to present a professional image and to communicate effectively in everyday customer service transactions, as well as in difficult situations. Students learn about various types of customers and develop strategies for dealing with each. Emphasis is placed on verbal and nonverbal communication, listening to the customer, customer service in a diverse world, managing stress and time, encouraging customer loyalty, and recovering customers after a breakdown in service. $35 virtual desktop fee. **Prerequisite: A grade of 2.0 or better in either MATH 40, MATH 50, or ABE 52, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 123
PC Hardware [RE] • 5.0 Credits
Students gain the knowledge, skills, and abilities essential to become a successful computer service technician as defined by experts from companies across the industry. Students learn how to troubleshoot and repair hardware problems and install components. Hardware topics include: power supply, CPUs and motherboards, memory, I/O busses, removable and fixed drives, optical drives, graphics and sound, and networking and printers. Other topics include: the DOS operating system, number systems, working safely and professionally, and the customer relations skills necessary for the industry. $35 virtual desktop fee. **Prerequisite: Completion of CS 101 with a 2.5 or better, or concurrent enrollment.**

CS 127
Windows Configuration [RE] • 5.0 Credits
Prepares students to develop the skills needed to deploy and manage a Windows desktop operating system. Students learn about hardware management, network configuration, application management, Windows installation, mobile computing, and system monitoring and maintenance.

$35 virtual desktop fee. **Prerequisite: Completion of CS 101 with a 2.5 or better, or concurrent enrollment.**

CS& 131
Computer Science I C++ [M/S] • 5.0 Credits
Formerly CS 161, CS& 131
This class is the first in a series of three in which students learn the C++ programming language. C++ is an extension of C language, which includes both procedural and object-oriented programming. It is the basis for most PC-based windows programs. Students learn C++ keywords, control structures, functions, arrays, strings, and introduction to classes and objects. $35 virtual desktop fee. **Prerequisite: A grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

CS 135
Cloud Fundamentals [RE] • 5.0 Credits
Cloud Fundamentals is intended for students who seek an overall understanding of cloud computing concepts, independent of specific technical roles. It provides a detailed overview of cloud concepts, cloud core services, security, architecture, pricing, and support. **Prerequisite: Completion of CS 101 with a 2.5 or better.**

CS 140
Sharepoint [RE] • 5.0 Credits
Provides students with the knowledge and skills that are needed to use and manipulate fundamental features of SharePoint Server. Students are introduced to core functions of SharePoint Server to gain a deeper insight of the capabilities and use of these functions and features. This information will assist students in effectively applying and securing SharePoint in a business environment. $35 virtual desktop fee. **Prerequisite: Completion of CS 101 and CS 228, both with a 2.5 or better.**

CS& 141
Computer Science I Java [M/S] • 5.0 Credits
Formerly CS 215, CS& 141
Java is an object-oriented programming language that is widely used to enhance information delivery on the web. Topics include: compiling and running a Java program, use of selection, loop structures, arrays, file processing, and introduction to classes and objects. Students learn how to write and debug Java programs with and without graphical user interfaces. $35 virtual desktop fee. **Prerequisite: A grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 150
Computer Security [RE] • 5.0 Credits
Computer Security provides an introductory exploration of computer and network security principles, practices, and technologies. Designed to align with the foundational objectives of the CompTIA Security+ certification, students will learn to identify common threats and vulnerabilities, understand basic cryptographic methods, and apply essential security tools and techniques. Topics include the CIA triad, malware types, public key infrastructure, antivirus software, and basic security planning. Through hands-on labs, research, and practical exercises, students will develop the skills needed to assess system security and communicate emerging cybersecurity trends. $35 virtual desktop fee. **Prerequisite: A grade of 2.5 or better in CS 101 and a grade of 2.0 or better in MATH 50, 60, or 62, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 162
C++2 [RE] • 5.0 Credits
This is an intermediate C++ course that provides students an understanding of key object-oriented programming (OOP) theories and concepts, and how to create and manipulate objects in a GUI environment. Students learn advanced features of C++ including: arrays, strings, file processing, classes, inheritance, composition, pointers, virtual functions, templates, and introduction to linked lists. $35 virtual desktop fee. **Prerequisite: Completion of CS& 131 with a 2.5 or better.**

CS 199
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework. $35 virtual desktop fee.

CS 202
Programming Fundamentals 2 [RE] • 5.0 Credits
This is an intermediate programming course using current technologies. Students learn to write, design, and debug Windows applications using a variety of controls and events, procedures, functions, arrays, structures, files, classes/Object Oriented design, database programming, and calculations to solve problems. Class projects involve writing games and business applications. $35 virtual desktop fee. **Prerequisite: Completion of CS 102 with a 2.5 or better.**

CS 206
Database Design [RE] • 5.0 Credits
This course introduces the database environment and development process, covering core concepts such as data modeling, the entity-relationship and enhanced ER models, and the foundations of relational design. Students learn to translate organizational requirements into logical and physical database structures and gain hands-on experience implementing systems using SQL and advanced query techniques. $35 virtual desktop fee. **Prerequisite: grade of 2.0 or better in either MATH 40, MATH 50, or ABE 52, or a grade of 1.0 or better in a higher math class, or appropriate placement. It is also recommended that students complete CS 101 with a 2.5 or better prior to enrollment.**

CS 217
Internship [RE] • 1.0–3.0 Credits
Provides students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on new experiences in an actual work setting. $35 virtual desktop fee. Grade is pass/no credit. **Prerequisite: Current enrollment in the Computer Science program is required prior to enrollment. You must also have a department approved Job Placement into a Computer Science-related field and instructor permission.**

CS 221
SQL Server Administration [RE] • 5.0 Credits
This course introduces relational database systems and SQL Server administration, including installation, configuration, and use of core database engine tools. Students learn to create and manage database objects, write SQL queries, develop stored procedures and functions, and implement views, indices, and security measures. The course also covers backup and recovery, cloud database concepts, and performance tuning to support secure, efficient database operations. $35 virtual desktop fee. **Prerequisite: A grade of 2.5 or better in CS 106 and CS 228, and a grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 223

Unix/Linux [RE] • 5.0 Credits

This course helps prepare students for working with other operating systems. Students learn how to use UNIX/Linux, which is an industry standard, and widely used on the Internet. Covers basic user commands, customizing the user shell, the vi editor, and basic scripting. $35 virtual desktop fee. **Prerequisite: A grade of 2.5 or better in CS 101, and a grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 225

SQL Programming [RE] • 5.0 Credits

This course introduces students to relational database concepts and SQL through hands-on practice using common database development tools. Students learn to retrieve data using single-table que-ries, multi-table joins, summary queries, and subqueries, as well as to insert, update, and delete data effectively. Building on these fundamentals, the course covers creating and maintaining databases, tables, and sequences, and working with views and SQL scripts. Students also develop stored procedures, functions, and triggers to automate processes and enforce business rules, preparing them to design and manage professional database systems. $35 virtual desktop fee. **Prerequisite: A grade of 2.5 or better in CS 106 and a grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 228

Windows Server [RE] • 5.0 Credits

This course prepares students to work with Windows Server. This course covers topics related to installation, configuration, troubleshooting, and optimization of a Windows Server. Students learn to set up and maintain users, groups, and file systems. Students learn how to use critical thinking and troubleshooting tools to troubleshoot the server, printers, and workstations. This class helps to prepare students to pass one of the Windows exams. $35 virtual desktop fee. **Prerequisite: A grade of 2.5 or better in CS 101, and a grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 230

Active Directory [RE] • 5.0 Credits

This course is designed to provide students with the knowledge and skills necessary to install, configure, and administer Microsoft Windows Active Directory. The course also focuses on implementing Group Policy and performing the Group Policy-related tasks that are required to centrally manage users and computers. $35 virtual desktop fee. **Prerequisite: A grade of 2.5 or better in CS 228 and a grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 231

Network Infrastructure [RE] • 5.0 Credits

This course prepares students to install, manage, monitor, configure, and troubleshoot DNS, DHCP, Remote Access, Network Protocols, IP Routing, and WINS in a Windows network infrastructure. In addition, this class prepares students to manage, monitor, and troubleshoot Network Address Translation and Certificate Services. It also prepares students to pass one of the MCSA/MCSE exams. $35 virtual desktop fee. **Prerequisite: A grade of 2.5 or better in CS 228 and a grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 232

Network Security [RE] • 5.0 Credits

This course provides a comprehensive introduction to securing modern network environments. Students will explore core principles of network security, including risk management, threat mitigation, and layered defense strategies. Topics include firewall configuration, intrusion detection and prevention systems (IDS/IPS), virtual private networks (VPNs), cryptographic techniques, and secure network design. Emphasis is placed on analyzing vulnerabilities, implementing security controls, and understanding governance, regulatory, and compliance (GRC) requirements. Through hands-on labs and case studies, students will gain practical experience in securing network infrastructure and evaluating emerging security technologies. $35 virtual desktop fee. **Prerequisite: A grade of 2.5 or better in CS 150, CS 228, and CS 231, and a grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 1.0 or better in a higher math class, or appropriate placement.**

CS 236

Advanced Object Oriented Programming [RE] • 5.0 Credits

An advanced course in Java programming in which students create applications to solve problems using common algorithms and Object Oriented Design. Topics include: classes, methods, interfaces, inheritance, exceptions, stacks, queues, linked lists, recursion, and binary trees. $35 virtual desktop fee. **Prerequisite: Completion of CS& 141 with a 2.5 or better.**

CS 245

Webpage Authoring Essentials [RE] • 5.0 Credits

The fundamentals and industry standards of web page design and implementation. This course will prepare students to design and publish a dynamic website. Students will differentiate between client-based website tasks and server-side tasks. Principles of web design, file management, HTML and data service topics will be introduced. Students will create an accessible website for an effective online presence based on a client need. **Prerequisite: Completion of CS 101 with a 1.0 or better.**

CS 250

HTML5-JavaScript/JQuery • 5.0 Credits

An introduction to dynamic client-side website development using JavaScript and JQuery. Students learn JavaScript to manipulate HTML and CSS elements, adding rich features to websites and mobile devices. Other topics include: JSON, HTML DOM, PHP, and Ajax. $35 virtual desktop fee. **Prerequisite: Completion of CS 102 or CS& 131 or CS& 141 with a 2.5 or better, or instructor permission.**

CS 260

Data Structures In C++ [RE] • 5.0 Credits

This course is the third in a series of three in which students learn the C++ programming language and how to implement and use different types of data-structures. This leads students to create data-driven programs and algorithms. Students also learn more about linked lists, stacks, queues, binary trees, and binary search, recursion, and sorting. The course starts at a level that assumes a good working knowledge of C++. $35 virtual desktop fee. **Prerequisite: Completion of CS 162 with a 2.5 or better.**

CS 262

Game Programming Design and Development [RE] • 5.0 Credits

Helps students understand important fundamentals of how to develop game applications using object-oriented development techniques. Course projects involve developing, debugging, and optimizing games for multiple hardware platforms. $35 virtual desktop fee. **Prerequisite: Completion of CS 102 or CS& 131 or CS& 141 with a 2.5 or better, or instructor permission.**

CS 299
Special Studies [RE] • 1.0–5.0 Credits
A class used to explore new coursework. $35 virtual desktop fee.

CS 301
Introduction to Information Systems • 5.0 Credits
Formerly CS 301, CSIT 301
The course is designed to help students understand the importance and elements of today's information technology (IT) systems. Topics include actual and contemporary examples to clearly illustrate how they can be applied to improve and strengthen IT organizations, IT security, and hands-on scenarios for class projects. $35 virtual desktop fee. **Prerequisite: Completion of CS 206 and CS 250, both with a 2.5 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CS 302
Principles of Computer Architecture and Computer Systems • 5.0 Credits
This course provides an in-depth exploration of computer systems, focusing on hardware architecture, operating systems, and the interaction between hardware and software. Students will gain a thorough understanding of CPU/ GPU functions, register sizes, and how hardware limitations impact program capabilities. By learning about hardware design, students will be equipped to optimize algorithms, improve memory access patterns, and exploit parallel processing, leading to faster and more resource-efficient code. The course also covers processor organization, memory, caches, and input/output systems, enabling students to write efficient code, diagnose performance bottlenecks, and design systems tailored to specific computational needs. This knowledge empowers students to develop applications that maximize the potential of modern computing architectures. **Prerequisite: Students must be accepted into CBC's BS in CS program.**

CS 316
Cloud Computing HTML5 and PHP • 5.0 Credits
Formerly CS 316, CSIT 316
This course in database-driven websites gives students an understanding of HTML5 with PHP (Hypertext Preprocessor). Students acquire web development techniques that use databases to create content with HTML form objects, database connections, and server side programming. Use of HTML5, MySQL, and PHP5 for programming turns simple static websites into dynamic, database-driven web applications. Course projects involve developing, debugging, PHP, and SQL. $35 virtual desktop fee. **Prerequisite: Completion of CS 206 and CS 250, both with a 2.5 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CS 321
Python for Data Processing • 5.0 Credits
Formerly CS 321, CSIT 311
This course is designed for students who have an object-oriented programming background. Students learn to use built-in data structures in Python computer language to perform complex data analysis. Students also learn to work with HTML, XML, and JSON data in Python to do basic data visualization. $35 virtual desktop fee. **Prerequisite: Completion of CS 250 and either CS 236 or CS 260, all with a 2.5 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CS 330
Principles of Computation and Algorithm Analysis • 5.0 Credits
This course covers the theoretical foundations of computers and algorithms, blending theory with application to demonstrate how theoretical concepts inform the design of programs and systems. Students will explore Automata Theory and Turing Machines, which illustrate the limits of computation and the concept of self-modifying machines. You'll also study pushdown automata and context-free languages, tools for analyzing programming language structures, designing compilers, and enforcing coding rules. Additionally, the course delves into algorithms for processing data, highlighting that some problems are unsolvable by computers. Students will learn to classify problems, assess algorithm efficiency, and choose optimal algorithms for specific tasks.

CS 331
Big Data Analysis • 5.0 Credits
Formerly CS 331, CSIT 306
The course provides a comprehensive view on computing architectures in data analytics and data mining. Topics include big data characteristics and algorithms, analyzing tools, data mining techniques, massive databases processing, implementation of machine learning algorithms, and analytics environments. Students learn to conceptualize an analytic environment that is suited to the challenges of today's analytics demands. $35 virtual desktop fee.

CS 401
Software Analysis and Design • 5.0 Credits
Formerly CS 401, CSIT 401
This course covers web development, service-oriented architecture, traditional, UML, and object-oriented approaches to information technology systems analysis and design. Real world case projects and technologies are provided throughout the course for hands-on exercises. Students apply the concepts learned to develop a conceptual, technical, and managerial foundation for systems analysis design and implementation as well as project management principles for systems development. $35 virtual desktop fee. **Prerequisite: Completion of PROJ 100 with a 2.0 or better and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CS 411
Agile Methodology & ePortfolio Planning • 5.0 Credits
Formerly CS 411, CSIT 411
This course represents the integration of previous coursework and practical experience with a focus on authentic demonstration of competencies outlined by the program. This course also covers Agile Methodology practices for teamwork using Scrum techniques. Students use an open source ePortfolio to collect information on performance-based artifacts combined with metacognitive reflection and a professional statement of purpose that reflects their ability to make globally, socially, and ethically responsible information technology and systems decisions that are aligned with the legal and organizational policy requirements. Students also reflect on a previous project and describe in writing how Scrum techniques could have been used to make their project more successful. $35 virtual desktop fee. **Prerequisite: Completion of PROJ 100 and CS 401, both with a 2.0 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CS 416
Data Visualization • 5.0 Credits
Formerly CS 416, CSIT 416
This course introduces a data analytics tool used to prepare and analyze data for effective visualizations. Students learn theory and concepts of data analytics and how to display and share data in a meaningful way. Students also learn the principles of preparing, analyzing, and processing data to create desired data visualizations. $35 virtual desktop

fee. **Prerequisite: Completion of CS 331 with a 2.0 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CS 417
Contemporary Topics in Computer Science • 5.0 Credits
This course is an in-depth survey of new and emerging technologies from the field of computer science. Students will have an opportunity to study advanced topics which may include, but is not limited to, artificial intelligence, cloud computing, big data, Internet of Things (IoT), and blockchains. **Prerequisite: Completion of CS 135 with a 2.5 or better; completion of CS 321 and CS 331, both with a 2.0 or better, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CS 421
Software Development Capstone • 5.0 Credits
Formerly CS 421, CSIT 421
This course integrates all IT knowledge and skills learned in previous courses into a project. Emphasis is placed on secure information system design, process planning, procedure definition, business continuity, and systems security architecture. Students design and implement a comprehensive information system from the planning and design phase through execution. $35 virtual desktop fee. **Prerequisite: Completion of CS 411 with a 2.0 or higher, or concurrent enrollment, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CS 440
Operating System Design & Internals • 5.0 Credits
In this course you will learn how Operating Systems (OS) function with a focus on Linux. Most computing devices have the capability to store and run multiple programs and the OS is a key component of every computer as it handles the tasks of starting and stopping programs, sharing the CPU between multiple programs that may be running simultaneously, and handling the movement of data between programs and devices such as the hard drives, network, keyboard, etc. Computer Science graduates should not only be able to understand how the OS functions and write code that runs efficiently on multiple OSs, but they should also be able to design and implement a simple OS that runs on a smart device and processes input and output from various sources. **Prerequisite: Acceptance into the BS in Computer Science degree program and completion of CSIA 430 with a 2.0 or better.**

Criminal Justice and Forensics

CJ& 101
Introduction to Criminal Justice [S/B] • 5.0 Credits
Formerly CJ 131, CJ& 101
This course provides an overview of the criminal justice system discussing law enforcement, the courts, corrections, juvenile justice, and current issues. This course examines the Constitutional requirements, historical development of the system, the agencies, processes, and theories within the criminal justice system. Emphasis is placed on how the various systems interrelate and interact with each other to attain the goal of an equitable delivery of crime-related public service.

CJ 104
Introduction to Policing [RE] • 5.0 Credits
This course examines the role of policing in American society. Theories and practices of policing from contemporary and historical perspectives are covered. This course also identifies political, social, organizational, and legal environments where the police perform their roles.

CJ& 105
Introduction to Corrections [RE] • 5.0 Credits
This course will examine the historical context, philosophical concepts, and major theories that have shaped corrections in the United States. Various sentencing options, correctional approaches and programs, the role of corrections in the larger criminal justice system, and contemporary correctional issues are discussed. Emphasis is placed on the effects of the corrections system on the individuals, families, and society.

CJ& 106
Juvenile Justice [RE] • 5.0 Credits
Formerly CJ 136, CJ& 106
This course will cover the history and philosophy of juvenile justice in America and the impact of present societal reforms on the juvenile justice system. This course will discuss the theories which support the creation, development, and continuance of juvenile justice systems, practices, and procedures in the United States.

CJ& 110
Criminal Law [RE] • 5.0 Credits
Formerly CJ 132, CJ& 110
This course is designed as an introduction into the study of criminal law and will review the difference between crimes against property, crimes against the public, and crimes against a person. This course will study the various mental states required for criminal responsibility and those defenses used in a criminal trial, along with definitions, classifications, elements, and penalties of crime and criminal responsibility.

CJ 134
Organization/Administration [RE] • 5.0 Credits
The principles of organization and administration of the modern law enforcement agency. Principles of management and operation of a law enforcement agency.

CJ 135
Traffic Control [RE] • 5.0 Credits
A study of the history of traffic control, routine and emergency traffic procedures. Fundamentals of traffic accident investigation are covered.

CJ 137
Constitutional Law [RE] • 5.0 Credits
A study of the provisions of the U.S. Constitution with primary emphasis on the Bill of Rights and the 14th Amendment and the application to law enforcement and the criminal justice system.

CJ 197
Internship [RE] • 1.0–5.0 Credits
A supervised, individual learning experience for students in the law enforcement environment. The experience shall consist of a minimum of six hours per week. The experience assignment is at the discretion of the agency where the student is placed. The agency will make an effort to give the student a well-rounded experience; the assignment may be terminated by either party at any time.

CJ 198
Special Projects [RE] • 1.0–3.0 Credits
A supervised, individual learning experience for students in the law enforcement environment. The experience shall consist of a minimum of six hours per week. The experience assignment is for the student to

conduct a research project that will benefit the student in the criminal justice field.

CJ 199
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

CJ 222
Alcohol/Drug Pharmacology/Physiology [RE] • 5.0 Credits
Physical responses of the human body to alcohol and other drugs, current research findings, basic information, and terminology essential for working in the criminal justice field.

CJ 232
Criminal Investigation [RE] • 5.0 Credits
The fundamentals of criminal investigation, criminalistics, and investigative techniques. An overview of investigations of crimes against people and property, and the role of science in crime detection. **Prerequisite: Completion of CJ& 101 with a 0.7 or better, or instructor permission.**

CJ 234
Criminal Evidence [RE] • 5.0 Credits
This course relates to the rules of evidence affecting the admissibility of evidence into court in criminal or civil cases as they pertain to the law enforcement officer or other members of the criminal justice system. This course will focus on court proceedings as they pertain to evidence, witnesses, report writing, exclusionary rule, and search and seizure under the Fourth Amendment. **Prerequisite: Completion of CJ& 101 with a 0.7 or better, or instructor permission.**

CJ& 240
Intro to Forensic Science • 5.0 Credits
Formerly CJ 242, CJ& 240
An overview of the role of the forensic scientist in criminal investigation. Course subject matter focuses on the crime laboratory, instruments, and methods used by the forensic scientist in analyzing criminal evidence. Specialized careers in forensic science are reviewed.

CJ 299
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

Cyber Security

CSIA 200
Computer Forensics Fundamentals [RE] • 5.0 Credits
This course provides students with the fundamentals of computer forensics, cyber crime scene analysis, and electronic discovery, along with associated investigation tools and techniques. Students explore computer forensic theory and focus on various forensic skills including conducting security incident investigations, file system and storage analysis, and data hiding techniques. Students also learn about legal issues and standards. $35 virtual desktop fee. **Prerequisite: A grade of 2.5 or better in CS 150, and a grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 1.0 or better in a higher math class, excluding MATH 100, MATH& 107, and MATH& 146, or appropriate placement.**

CSIA 250
Networking Fundamentals [RE] • 5.0 Credits
This course focuses on implementing, managing, protecting, and troubleshooting small to medium size enterprise branch networks. Topics covered include OSI model, Cisco devices, wireless networks, switching, IP routing, troubleshooting routing, and advanced TCP/IP configuration. This course prepares students for the Cisco Certified Network Associate (CCNA) exam. $35 virtual desktop fee. **Prerequisite: Completion of CS 228 and CS 231, both with a with a 0.7 or higher. CS 231 can be taken concurrently.**

CSIA 300
Cyber Security and Information Assurance • 5.0 Credits
This course provides students with the tools and resources needed to develop an understanding of the CISSP certification body of knowledge. Using a variety of pedagogical features, students learn security basics such as security laws, access control, cryptography, and security architecture and design. $35 virtual desktop fee. **Prerequisite: Completion of CS 150 and CS 231, both with a 0.7 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIA 310
E-Commerce Security • 5.0 Credits
This course provides students with tools and resources they need to develop a thorough understanding of four major aspects of security: policies and procedures, technology orientation, computer and network security, and managing organizations securely. $35 virtual desktop fee. **Prerequisite: Completion of CS 150, CS 206, and CS 232, all with a 0.7 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIA 320
Ethical Hacking • 5.0 Credits
This course provides students with the tools and resources needed to develop an understanding of ethical hacking. Students are taken through an interactive environment where they are shown how to scan, test, hack, and secure information systems. $35 virtual desktop fee. **Prerequisite: Completion of CS 232 with a 0.7 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIA 330
Wireless Security • 5.0 Credits
This course provides students with the conceptual knowledge and hands-on skills needed to secure wireless technology. Topics include network security design models, managed wireless endpoints, WLAN discovery, intrusion, and attack techniques. It also details 802.11 protocol analysis, wireless intrusion prevention systems (WIPS) implementation, and Layer 2 and Layer 3 VPNs. $35 virtual desktop fee. **Prerequisite: Completion of CS 150 and CS 231 with a 2.5 or higher, concurrent enrollment in or completion of CSIA 300 with a 2.0 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIA 410
Cryptology • 5.0 Credits
This course provides students with an operational understanding of basic cryptographic systems. Students learn about symmetric cryptography, block ciphers and secure hash functions, asymmetric cryptography, key exchange and public-key systems, and authentication and encryption in an adversarial model. $35 virtual desktop fee. **Prerequisite: Completion of CS 150 and CS 231, both with a 0.7 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIA 420
Cyber Crime and Terrorism • 5.0 Credits
This class begins with a broad introduction to the field of computer crime, discussing the history of computer crime, basic criminal techniques, and the relevant laws. It walks students through forensics, litigation, depositions, expert reports, trials, and how to select an appropriate expert witness. This class also covers specific techniques and tricks that hackers use and how to defend against such attacks. $35 virtual desktop fee. **Prerequisite: Completion of CS 232 with a 2.5 or higher, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIA 430
Unix Administration and Security • 5.0 Credits
Students study UNIX and Linux system administration and security. System administration topics include installation, kernel configuration and customization, user administration, package management and backup, automating and scheduling tasks, file system management and maintenance, and system initialization and services. Students also learn how to assess security on UNIX and Linux systems, take appropriate actions to correct security deficiencies, and prepare administrative reports. $35 virtual desktop fee. **Prerequisite: Completion of CS 223 with a 2.5 or better, or concurrent enrollment, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIA 440
Cyber Testing and Penetration • 5.0 Credits
This course covers a broad base of topics in advanced penetration testing and information security analysis. Students are exposed to techniques and tools to perform a thorough penetration test along with legal requirements, rules of engagement, how to plan and schedule a test, how to perform vulnerability analysis, external and internal penetration testing, and techniques to produce a professional report from the engagement. $35 virtual desktop fee. **Prerequisite: Completion of CSIA 300, CSIA 320, and CSIA 330, all with a 2.0 or better, and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIA 450
Cyber Security Capstone • 5.0 Credits
This course integrates all the various cyber security knowledge and skills learned in previous courses into a project. Emphasis is placed on security policy, process planning, procedure definition, business continuity, and systems security architecture. Upon completion, students should be able to design and implement comprehensive information security architecture from the planning and design phase through implementation. $35 virtual desktop fee. **Prerequisite: Must be taken senior year, or after 25 credits of CSIA classes are taken, and meet the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

Dental Assisting

DAST 101
Introduction to Dental Assisting [RE] • 3.0 Credits
This course explores fundamental concepts related to dental assisting and provides a comprehensive introduction into the field of dental sciences. Areas of emphasis include: job description and work environment, the dental team, dental procedures and patient care, dental specialties, environmental hazards, operatory equipment and furniture, and patient populations. **Prerequisite: Acceptance into the Dental Assisting program.**

DAST 102
Dental Sciences I [RE] • 3.0 Credits
This course introduces basic dental sciences and related foundational concepts for dental practice and patient care. Topics include etiology and treatment of oral disease, the disease process, patient assessment, and delivery of dental care. **Prerequisite: Acceptance into the Dental Assisting program.**

DAST 103
Head, Neck, & Dental Anatomy [RE] • 4.0 Credits
In this course, students will explore anatomy, physiology, histology, and pathophysiology related to the head, neck, and oral cavity. **Prerequisite: Acceptance into the Dental Assisting program.**

DAST 104
Introduction to Dental Radiology [RE] • 3.0 Credits
This course focuses on radiation physics, biology, and safety. Topics include recognition of anatomical landmarks, evidence of pathology, radiographic techniques, image quality, mounting, and film processing. **Prerequisite: Completion of DAST 101, DAST 111, DAST 102, DAST 112, and DAST 103, all with a 2.0 or better.**

DAST 105
Dental Sciences II [RE] • 5.0 Credits
Building on DAST 102, this course introduces students to patient care and assisting during dental procedures, including coronal polishing, moisture control, isolation methods, oral illumination techniques, fluoride application, and anesthesia preparation. **Prerequisite: Completion of DAST 101, DAST 111, DAST 102, DAST 112, and DAST 103, all with a 2.0 or better.**

DAST 106
Infection Control [RE] • 3.0 Credits
This course explores infection control and prevention in the dental setting, including asepsis and sterile technique, methods of disinfection and sterilization, Spaulding classification for medical devices, and standards for medical device handling. **Prerequisite: Completion of DAST 101, DAST 111, DAST 102, DAST 112, and DAST 103, all with a 2.0 or better.**

DAST 111
Introduction to Dental Assisting Lab [RE] • 3.0 Credits
This course accompanies DAST 101 and provides students an opportunity to learn and practice skills related to fundamental concepts related to dental assisting. Areas of emphasis include: dental procedures and patient care, patient records, dental specialties, environmental hazards, ergonomics, dental equipment, instrumentation, and supplies. $95 dental assisting lab fee. **Prerequisite: Acceptance into the Dental Assisting program.**

DAST 112
Dental Sciences I Lab [RE] • 3.0 Credits
This course accompanies DAST 102 and provides students an opportunity to apply principles of basic dental sciences to oral procedures. Areas of emphasis include: patient assessment, operatory equipment setup and use, application of dental instrumentation, oral examinations, medical emergency interventions, and patient nutritional counseling. $95 dental assisting lab fee. **Prerequisite: Acceptance into the Dental Assisting program.**

DAST 114
Introduction to Dental Radiology Lab [RE] • 2.0 Credits
This course accompanies DAST 104 and provides students an opportunity to apply concepts of radiographic imaging to dental patient care. Students perform radiographic film placement and proper exposure techniques. $95 dental assisting lab fee. **Prerequisite: Completion of DAST 101, DAST 111, DAST 102, DAST 112, and DAST 103, all with a 2.0 or better.**

DAST 115
Dental Sciences II Lab [RE] • 3.0 Credits
This course accompanies DAST 105 and provides students an opportunity to practice skills related to dental assisting during patient care procedures, including coronal polishing, moisture control, isolation methods, oral illumination techniques, fluoride application, and anesthesia preparation. $95 dental assisting lab fee. **Prerequisite: Completion of DAST 101, DAST 111, DAST 102, DAST 112, and DAST 103, all with a 2.0 or better.**

DAST 201
Dental Sciences III [RE] • 4.0 Credits
This course explores the role of the dental assistant in general dentistry, including dental materials, restorative techniques, permanent and interim restoration, and pharmacologic practices. **Prerequisite: Completion of DAST 104, DAST 114, DAST 105, DAST 115, and DAST 106, all with a 2.0 or better.**

DAST 202
Dental Sciences IV [RE] • 4.0 Credits
This course explores the role of the dental assistant in dental specialties, endodontics, prosthodontics, pediatric dentistry, oral surgery, orthodontics, and periodontics. **Prerequisite: Completion of DAST 104, DAST 114, DAST 105, DAST 115, and DAST 106, all with a 2.0 or better.**

DAST 203
Office Management [RE] • 2.0 Credits
This course explores the role of the dental assistant within the dental office, including records management, patient recalls, dental insurance, financial management, patient privacy standards, regulatory documentation, inventory management, professional leadership attributes, and interviewing skills. **Prerequisite: Completion of DAST 104, DAST 114, DAST 105, DAST 115, and DAST 106, all with a 2.0 or better.**

DAST 204
Dental Assisting Law & Ethics [RE] • 3.0 Credits
This course provides an understanding of ethical and legal concepts related to the practice of dental assisting, including: ethical dilemmas, organizational and professional issues, legal concepts, the law as related to the decision-making process in the dental setting, and the professional code of ethics. **Prerequisite: Completion of DAST 201, DAST 211, DAST 202, DAST 212, and DAST 203, all with a 2.0 or better.**

DAST 211
Dental Sciences III Lab [RE] • 3.0 Credits
This course accompanies DAST 201 and provides students an opportunity to apply principles of general dentistry within the role of the dental assistant, including dental materials, restorative techniques, permanent and interim restoration, and four-handed dentistry. $95 dental assisting lab fee. **Prerequisite: Completion of DAST 104, DAST 114, DAST 105, DAST 115, and DAST 106, all with a 2.0 or better.**

DAST 212
Dental Sciences IV Lab [RE] • 2.0 Credits
This course accompanies DAST 202 and provides students an opportunity to practice dental assisting skill within the dental specialties, including endodontics, prosthodontics, pediatric dentistry, oral surgery, orthodontics, and periodontics. $95 dental assisting lab fee. **Prerequisite: Completion of DAST 104, DAST 114, DAST 105, DAST 115, and DAST 106, all with a 2.0 or better.**

DAST 225
Dental Assistant Clinical Experience [RE] • 10.0 Credits
This course provides exposure to diverse chair-side clinical experiences within the dental clinic setting. Students perform assigned dental assistant duties under the supervision of facility personnel, clinical preceptors, licensed dentists, and clinical college faculty in accordance with patient safety standards and industry best practices. **Prerequisite: Completion of DAST 201, DAST 211, DAST 202, DAST 212, and DAST 203, all with a 2.0 or better.**

Dental Hygiene

DHYG 301
Dental Anatomy • 1.0 Credit
Formerly DHYG 110, DHYG 301
This course introduces students to fundamental concepts related to tooth anatomy and terminology. Areas of emphasis include crown and root morphology in primary and permanent dentitions, nomenclature, eruption sequence, temporomandibular joint, occlusion, malocclusion patterns, and movements. **Prerequisite: Students must apply and be accepted into the CBC Dental Hygiene program prior to enrolling.**

DHYG 302
Histology/Embryology • 2.0 Credits
Formerly DHYG 111, DHYG 302
This course is an introduction to the embryology and histology of the head and neck region. Builds on basic sciences and prepares for the additional study of dental sciences as they relate to the clinical practice of dental hygiene. **Prerequisite: Students must apply and be accepted into the CBC Dental Hygiene program prior to enrolling.**

DHYG 303
Oral Radiology I • 1.0 Credit
Formerly DHYG 112, DHYG 303
This course accompanies DHYG 304 and is the first in a two-quarter series that focuses on radiation physics, biology, protection of the patient when radiographs are taken, recognition of anatomical landmarks, evidence of pathology, and abnormalities. **Prerequisite: Concurrent enrollment in DHYG 304. Students must apply and be accepted into the CBC Dental Hygiene program prior to enrolling.**

DHYG 304
Oral Radiology I Lab • 1.0 Credit
Formerly DHYG 101, DHYG 304
This course accompanies DHYG 303 and is the first in a two-quarter series and provides students the opportunity to apply principles of patient protection, radiographic film placement, and proper exposure and developing techniques. Students will identify oral structures in radiographs. $11.40 lab fee. **Prerequisite: Concurrent enrollment in DHYG 303. Students must apply and be accepted into the CBC Dental Hygiene program prior to enrolling.**

DHYG 305
Clinical Dental Hygiene Techniques I • 2.0 Credits
Formerly DHYG 113, DHYG 305
This course accompanies DHYG 306 and is the first in a series of clinical dental hygiene technique courses and introduces students to basic principles used in the practice of dental hygiene. Areas of emphasis include infection control standards (OSHA), universal precautions, patient assessment, and treatment standards. $135 per quarter Dental Hygiene clinic fee. **Prerequisite: Concurrent enrollment in DHYG 306. Students must apply and be accepted into the CBC Dental Hygiene program prior to enrolling.**

DHYG 306
Clinical Dental Hygiene Techniques I Lab • 3.0 Credits
Formerly DHYG 102, DHYG 306
This course accompanies DHYG 305 and is the second in a series of clinical dental hygiene technique courses that provides students the opportunity to apply skills and knowledge in a pre-clinical setting. Areas of emphasis include: basic skills of infection control, patient assessment, and treatment in the pre-clinical setting. $10.72 per quarter malpractice insurance fee. $135 per quarter Dental Hygiene clinic fee. **Prerequisite: Concurrent enrollment in DHYG 305. Students must apply and be accepted into the CBC Dental Hygiene program prior to enrolling.**

DHYG 307
Dental Health Education • 1.0 Credit
Formerly DHYG 114, DHYG 307
This course explores the principles and practices of prevention and management of dental disease with emphasis on biofilm control, cardiology, patient motivation, oral hygiene education, and techniques. **Prerequisite: Students must apply and be accepted into the CBC Dental Hygiene program prior to enrolling.**

DHYG 308
Dental Materials • 1.0 Credit
Formerly DHYG 115, DHYG 308
This course accompanying DHYG 309 introduces students to history, composition, chemical and physical properties, and use of materials commonly used in the dental laboratory and dental operatory. **Prerequisite: Concurrent enrollment in 309 and completion of DHYG 301, DHYG 302, DHYG 303, DHYG 304, DHYG 305, DHYG 306, DHYG 307, DHYG 310, and DHYG 312 with a minimum grade of 2.0.**

DHYG 309
Dental Materials Lab • 1.0 Credit
Formerly DHYG 103, DHYG 309
This course accompanies DHYG 308 and provides students an opportunity to practice skills related to common dental materials and procedures. $11.40 lab fee. **Prerequisite: Concurrent enrollment in 308 and completion of DHYG 301, DHYG 302, DHYG 303, DHYG 304, DHYG 305, DHYG 306, DHYG 307, DHYG 310, and DHYG 12 with a minimum grade of 2.0**

DHYG 310
Head and Neck Anatomy • 2.0 Credits
Formerly DHYG 116, DHYG 310
In this course students will study head and neck regions, identification of nerves, bones, muscles, and oral regions structure and function. **Prerequisite: Students must apply and be accepted into the CBC Dental Hygiene program prior to enrolling.**

DHYG 311
Medical Emergencies In Dentistry • 2.0 Credits
Formerly DHYG 120, DHYG 311
This course focuses on the study of commonly encountered medical emergencies in the dental setting that may involve systemic disease and etiology, presentation, treatment, and effects of dental treatment on patients who may present with these diseases and other medical conditions. The associated emergency procedures required to treat medical emergencies in the dental setting will be covered, as well as cardio-pulmonary resuscitation, the use of an automated external defibrillator (AED), first aid and safety training. **Prerequisite: Completion of DHYG 301, DHYG 302, DHYG 303, DHYG 304, DHYG 305, DHYG 306, DHYG 307, DHYG 310, and DHYG 312 with a minimum grade of 2.0.**

DHYG 312
General Pathology • 2.0 Credits
Formerly DHYG 121, DHYG 312
In this course students will study systemic diseases and their etiology, presentation of signs and symptoms of disease manifestation, inflammatory process, immune response, and healing. Includes current recommended treatments, morbidity, mortality, and the impact of oral inflammation and disease on systemic health. **Prerequisite: Students must apply and be accepted into the CBC Dental Hygiene program prior to enrolling.**

DHYG 313
Oral Radiology II • 1.0 Credit
Formerly DHYG 122, DHYG 313
The course accompanies DHYG 314 and is the second in a series of oral radiology. Students will be introduced to radiographic quality, techniques, interpretation of errors, and pathology. **Prerequisite: Concurrent enrollment in DHYG 314 and completion of DHYG 301, DHYG 302, DHYG 303, DHYG 304, DHYG 305, DHYG 306, DHYG 307, DHYG 310, and DHYG 312 with a minimum grade of 2.0.**

DHYG 314
Oral Radiology II Lab • 1.0 Credit
Formerly DHYG 104, DHYG 314
The course accompanies DHYG 313 and is the second in a series of oral radiology labs. Students will have an opportunity to practice oral radiographic technique and apply knowledge to analyze radiographic technique and evaluation of films diagnostic quality and effectiveness. $11.40 lab fee. **Prerequisite: Concurrent enrollment in DHYG 313 and completion of DHYG 301, DHYG 302, DHYG 303, DHYG 304, DHYG 305, DHYG 306, DHYG 307, DHYG 310, and DHYG 312 with a minimum grade of 2.0.**

DHYG 315
Clinical Dental Hygiene Techniques II • 2.0 Credits
Formerly DHYG 123, DHYG 315
This course accompanies DHYG 316 and the second in a series of clinical dental hygiene technique courses and introduces students to dental hygiene treatment planning, effective communication with patients, preventive dental patient education, and clinical skill development. **Prerequisite: Concurrent enrollment in DHYG 316 and Completion of DHYG 301, DHYG 302, DHYG 303, DHYG 304, DHYG 305, DHYG 306, DHYG 307, DHYG 310, and DHYG 312 with a minimum grade of 2.0.**

DHYG 316
Clinical Dental Hygiene Techniques II Lab • 4.0 Credits
Formerly DHYG 105, DHYG 316

This course accompanies DHYG 315 and the second in a series of clinical dental hygiene technique courses and introduces students to dental hygiene treatment planning, effective communication with patients, preventive dental patient education, and clinical skill development. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. $135 per quarter Dental Hygiene clinic fee. **Prerequisite: Concurrent enrollment in DHYG 315 and completion of DHYG 301, DHYG 302, DHYG 303, DHYG 304, DHYG 305, DHYG 306, DHYG 307, DHYG 310, and DHYG 312 with a minimum grade of 2.0.**

DHYG 318
Restorative Dentistry I • 1.0 Credit
Formerly DHYG 125, DHYG 318
This course accompanies DHYG 319 and is the first in a series of courses in restorative dentistry. Students will be introduced to composition and physical properties of amalgam, amalgam's use as a dental restorative material, amalgam safety, proper handling, and placement of amalgam with an emphasis on occlusion. **Prerequisite: Concurrent enrollment in DHYG 319 and completion of DHYG 308, DHYG 309, DHYG 311, DHYG 313, DHYG 314, DHYG 315, DHYG 316, and DHYG 322 with a minimum grade of 2.0.**

DHYG 319
Restorative Dentistry I Lab • 1.0 Credit
Formerly DHYG 106, DHYG 319
This course accompanies DHYG 318 and is the first in a series of laboratory courses in restorative dentistry and provides students an opportunity to apply skills for safe placement, handling, and manipulation of amalgam restorative materials to complete Class I restorations. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Concurrent enrollment in DHYG 318 and completion of DHYG 308, DHYG 309, DHYG 311, DHYG 313, DHYG 314, DHYG 315, DHYG 316, and DHYG 322 with a minimum grade of 2.0.**

DHYG 320
Pain Control In Dentistry • 2.0 Credits
Formerly DHYG 126, DHYG 320
This course accompanies DHYG 321 and includes the pharmacology and physiology of both local anesthetic agents and nitrous oxide sedation. Application of the knowledge of the nerves of the head, the physiology of nerve conduction, and the transmission of pain impulse are studied as well as the transient blockage of nerve transmission with local anesthetics. Knowledge of prevention and management of dental emergencies is included as well as the decision making of the selection of the appropriate injection to be given and the type of local anesthetic to be used. The use of nitrous oxide delivery and its application as an analgesic is also included. **Prerequisite: Concurrent enrollment in DHYG 321 and completion of DHYG 308, DHYG 309, DHYG 311, DHYG 313, DHYG 314, DHYG 315, DHYG 316, and DHYG 322 with a minimum grade of 2.0.**

DHYG 321
Pain Control In Dentistry Lab • 2.0 Credits
Formerly DHYG 107, DHYG 321
This course accompanies DHYG 320 that gives students an opportunity to practice effective techniques in the delivery of nerve block and infiltration injections, including safe and effective delivery of nitrous oxide sedation. All injections and the delivery of nitrous oxide are completed on student partners. These skills are part of the expanded duties allowed for dental hygienists in Washington state. $11.40 lab fee. **Prerequisite: Concurrent enrollment in DHYG 320 and completion of DHYG 308, DHYG 309, DHYG 311, DHYG 313, DHYG 314, DHYG 315, DHYG 316, and DHYG 322 with a minimum grade of 2.0.**

DHYG 322
Pharmacology • 2.0 Credits
Formerly DHYG 127, DHYG 322
This course explores the study of pharmacology as it affects the clinical practice of dentistry with an emphasis on drugs commonly used to treat medical conditions and their impact on dental treatment. Areas of emphasis include effects, administration, biotransformation, and toxicology as potential for emergency reactions, idiopathic reactions, and emergency treatment protocols. **Prerequisite: Completion of DHYG 301, DHYG 302, DHYG 303, DHYG 304, DHYG 305, DHYG 306, DHYG 307, DHYG 310, and DHYG 312 with a minimum grade of 2.0.**

DHYG 323
Oral Pathology • 2.0 Credits
Formerly DHYG 131, DHYG 323
This course introduces students to commonly encountered oral diseases including their etiology, presentation, recognition, treatment, impact on dental treatment, and the need for referral for further evaluation. Extensive and correct documentation is stressed as well as collaboration with a dentist for differential diagnosis. **Prerequisite: Completion of DHYG 301, DHYG 302, DHYG 303, DHYG 304, DHYG 305, DHYG 306, DHYG 307, DHYG 310, and DHYG 312 with a minimum grade of 2.0.**

DHYG 324
Periodontics I • 2.0 Credits
Formerly DHYG 132, DHYG 324
This course is the first of a two-quarter series on the study of periodontology. Students will explore fundamental concepts related to components of the gingival and periodontal structures, various health and disease states of the periodontium including peri-implantitis, contributing factors that cause gingivitis and periodontitis, development of disease, and oral-systemic link. **Prerequisite: Completion of DHYG 318, DHYG 319, DHYG 320, DHYG 321, DHYG 323, DHYG 325, and DHYG 326, with a minimum grade of 2.0.**

DHYG 325
Clinical Dental Hygiene Techniques III • 2.0 Credits
Formerly DHYG 134, DHYG 325
This course accompanies DHYG 326 and is the third in a series of clinical dental hygiene technique courses. Areas of emphasis include: dental hygiene techniques and the expanded development of clinical dental hygiene skills. $10.72 per quarter malpractice insurance fee. **Prerequisite: Concurrent enrollment in DHYG 326 and completion of DHYG 308, DHYG 309, DHYG 311, DHYG 313, DHYG 314, DHYG 315, DHYG 316, and DHYG 322, all with a minimum grade of 2.0.**

DHYG 326
Clinical Dental Hygiene Techniques III Lab • 4.0 Credits
Formerly DHYG 108, DHYG 326
This course accompanies DHYG 325 and is the third in a series of clinical dental hygiene technique courses that provides students the opportunity to apply skills and knowledge during direct patient care. Areas of emphasis include patient assessment, instrumentation, treatment, and continued development of procedures and techniques introduced in pre-clinical courses. $11.40 lab fee. $135 per quarter Dental Hygiene clinic fee. **Prerequisite: Concurrent enrollment in DHYG 325 and completion of DHYG 308, DHYG 309, DHYG 311, DHYG 313, DHYG 314, DHYG 315, DHYG 316, and DHYG 322, all with a minimum grade of 2.0.**

DHYG 327
Restorative Dentistry II • 1.0 Credit
Formerly DHYG 135, DHYG 327

This course accompanies DHYG 328 and is the second in the restorative series. This course introduces students to dental preparation design, isolation techniques, application of dental materials, amalgam restorations, and composite materials. **Prerequisite: Concurrent enrollment in DHYG 328 and completion of DHYG 318, DHYG 319, DHYG 320, DHYG 321, DHYG 323, DHYG 325, and DHYG 326, with a minimum grade of 2.0.**

DHYG 328
Restorative Dentistry II Lab • 2.0 Credits
Formerly DHYG 109, DHYG 328
This course accompanies DHYG 327 and is the second in the restorative series. This course provides students the opportunity to learn and practice skills related to placement and finishing of Class I composite and Class II amalgam restorations. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Concurrent enrollment in DHYG 327 and completion of DHYG 318, DHYG 319, DHYG 320, DHYG 321, DHYG 323, DHYG 325, and DHYG 326, with a minimum grade of 2.0.**

DHYG 329
Patient Management • 2.0 Credits
Formerly DHYG 136, DHYG 329
In this course students study characteristics of individual patients, motivation, and interpersonal communication. Areas of emphasis include exposure to diverse cultures and their attitudes and approaches to medical and dental care, modification of treatment planning for the young, geriatric, medically or mentally compromised patient, and patients who exhibit special needs. **Prerequisite: Completion of DHYG 318, DHYG 319, DHYG 320, DHYG 321, DHYG 323, DHYG 325, and DHYG 326, with a minimum grade of 2.0.**

DHYG 330
Clinical Dental Hygiene Techniques IV • 1.0 Credit
Formerly DHYG 144, DHYG 330
This course accompanies DHYG 331 and is the fourth in a series of clinical dental hygiene technique courses and introduces students to dental hygiene techniques for the periodontally involved patient, advanced instrumentation techniques for root surfaces, powered scalers, treatment of the pregnant patient through menopause, geriatric patients, patients with dental prostheses, and edentulous patients. **Prerequisite: Concurrent enrollment in DHYG 331 and completion of DHYG 318, DHYG 319, DHYG 320, DHYG 321, DHYG 323, DHYG 325, and DHYG 326, with a minimum grade of 2.0.**

DHYG 331
Clinical Dental Hygiene Techniques IV Lab • 1.0–5.0 Credits
Formerly DHYG 147, DHYG 331
This course accompanies DHYG 330 and is a continuation of DHYG 326. This course provides students an opportunity to apply learned skills, critical evaluation of dental hygiene treatment needs, and delivery of care on a variety of patients. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. $135 per quarter Dental Hygiene clinic fee. **Prerequisite: Concurrent enrollment in DHYG 330 and completion of DHYG 318, DHYG 319, DHYG 320, DHYG 321, DHYG 323, DHYG 325, and DHYG 326, with a minimum grade of 2.0.**

DHYG 401
Restorative Dentistry III • 1.0 Credit
Formerly DHYG 246, DHYG 401
This course accompanies DHYG 402 and is the third in the restorative series. Areas of emphasis include Class II composite restorations and restoring anterior teeth. **Prerequisite: Concurrent enrollment in DHYG 402 and completion of DHYG 324, DHYG 327, DHYG 328, DHYG 329, DHYG 330, and DHYG 331, with a minimum grade of 2.0.**

DHYG 402
Restorative Dentistry III Lab • 2.0 Credits
Formerly DHYG 220, DHYG 402
This course accompanies DHYG 401 and is the third in the restorative series. Students will have the opportunity to practice skills related to placement and finishing of Class II amalgam and composite restorations, Class V glass ionomer restorations, and restoring anterior teeth. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Concurrent enrollment in DHYG 401 and completion of DHYG 324, DHYG 327, DHYG 328, DHYG 329, DHYG 330, and DHYG 331, with a minimum grade of 2.0.**

DHYG 403
Community Oral Health Research I • 2.0 Credits
This course presents students with foundational knowledge of community health. Topics include local and national organizations related to community health, oral health discrepancies, access to dental care, determinants of health, epidemiology, and disease prevention. Students will demonstrate an understanding of community health principles, examine social determinants affecting dental care access, analyze public health data, determine target populations for oral health promotion, and differentiate between health behavior theories and teaching methods. Additionally, students will evaluate current scientific literature to inform evidence-based decisions. **Prerequisite: Completion of DHYG 324, DHYG 327, DHYG 328, DHYG 329, DHYG 330, and DHYG 331, with a minimum grade of 2.0.**

DHYG 404
Nutrition In Dentistry • 1.0 Credit
Formerly DHYG 211, DHYG 404
This course reviews principles of nutrition with enhanced information on nutrition's relationship to oral health. Areas of emphasis include assessment of a patient's nutritional knowledge, eating habits, and impact that these have on the patient's overall oral health. **Prerequisite: Completion of DHYG 401, DHYG 402, DHYG 403, DHYG 406, DHYG 407, and DHYG 410 with a minimum grade of 2.0.**

DHYG 406
Clinical Dental Hygiene Techniques V • 1.0 Credit
Formerly DHYG 214, DHYG 406
This course accompanies DHYG 407 and is the fifth in a series of clinical dental hygiene technique courses. Topics include case presentations and study of clinical cases, advanced clinical techniques of local anesthesia, and the role of the dental hygienist in tobacco cessation. $135 per quarter Dental Hygiene clinic fee. **Prerequisite: Concurrent enrollment in DHYG 407 and completion of DHYG 324, DHYG 327, DHYG 328, DHYG 329, DHYG 330, and DHYG 331 with a minimum grade of 2.0.**

DHYG 407
Clinical Dental Hygiene Techniques V Lab • 6.0 Credits
Formerly DHYG 216, DHYG 407
This course accompanies DHYG 406 and is a continuation of DHYG 331. Areas of emphasis include: progressive clinical experience in patient assessment, dental hygiene treatment planning, continued development of clinical skills and knowledge, and restorative care on patients. $10.72 per quarter malpractice insurance fee. $135 per quarter Dental Hygiene clinic fee. **Prerequisite: Concurrent enrollment in DHYG 406 and completion of DHYG 324, DHYG 327, DHYG 328, DHYG 329, DHYG 330, and DHYG 331 with a minimum grade of 2.0.**

DHYG 408

Ethics and Jurisprudence, Practice Management • 2.0 Credits

Formerly DHYG 215, DHYG 408

This course provides an understanding of ethical and legal concepts related to the practice of dental hygiene including: professional code of ethics, ethical dilemmas, organizational and professional issues, legal concepts, and law as it relates to the practice of dental hygiene. Students will also explore the role of the dental hygienist within the dental office, dental insurance, professional leadership attributes, and career preparation. **Prerequisite: Completion of DHYG 401, DHYG 402, DHYG 403, DHYG 406, DHYG 407, and DHYG 410 with a minimum grade of 2.0.**

DHYG 409

Community Oral Health Research II • 2.0 Credits

In this course students will be introduced to public health concepts and their impact on community health research, design elements included in research including selection of research topic, exploration of community partners and potential stakeholders, program/project development, preparation for implementation, and selection of evaluation methods. Students will implement, evaluate, and present their program/project in DHYG 415. **Prerequisite: Completion of DHYG 401, DHYG 402, DHYG 403, DHYG 406, DHYG 407, and DHYG 410 with a minimum grade of 2.0.**

DHYG 410

Periodontics II • 2.0 Credits

Formerly DHYG 222, DHYG 410

This course is the second of a two-quarter series on periodontology and focuses on treatment of periodontal disease including classification, treatment planning, procedure coding for dental hygiene therapies, reevaluation, maintenance, retreatment, determination of referral for out of scope treatment needs, surgical concepts, and the patient's role in periodontal therapy. **Prerequisite: Completion of DHYG 324, DHYG 327, DHYG 328, DHYG 329, DHYG 330, and DHYG 331, with a minimum grade of 2.0.**

DHYG 411

Clinical Dental Hygiene Techniques VI • 1.0 Credit

Formerly DHYG 224, DHYG 411

This course accompanies DHYG 412 and is the sixth in a series of clinical dental hygiene technique courses. Topics include assessment of the periodontally involved patient, evaluation of continued care needs, appointment intervals, risk assessment, discussion, and determination of restorative needs and care. **Prerequisite: Completion of DHYG 401, DHYG 402, DHYG 403, DHYG 406, DHYG 407, and DHYG 410 with a minimum grade of 2.0.**

DHYG 412

Clinical Dental Hygiene Techniques VI Lab • 7.0 Credits

Formerly DHYG 218, DHYG 412

This course accompanies DHYG 411 and is a continuation of DHYG 407. Students have the opportunity to provide comprehensive clinical experiences in all phases of the dental hygiene process of care including clinical work that expands on procedures and techniques introduced in prior clinical courses including placement of restorations on patients. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. $135 per quarter Dental Hygiene clinic fee. **Prerequisite: Completion of DHYG 401, DHYG 402, DHYG 403, DHYG 406, DHYG 407, and DHYG 410 with a minimum grade of 2.0.**

DHYG 413

Clinical Dental Hygiene Techniques VII • 1.0 Credit

Formerly DHYG 234, DHYG 413

This course accompanies DHYG 414 and is the final course in a series of clinical dental hygiene technique courses and provides expanded learning through discussion and exploration of patient scheduling and clinical practice in a variety of settings including community and public health clinics, private dental practices, and specialty practices. $10.72 per quarter malpractice insurance fee. **Prerequisite: Concurrent enrollment in DHYG 414 and completion of DHYG 404, DHYG 408, DHYG 409, DHYG 411, and DHYG 412 with a minimum grade of 2.0.**

DHYG 414

Clinical Dental Hygiene Techniques VII Lab • 9.0 Credits

Formerly DHYG 219, DHYG 414

This course accompanies DHYG 413 and is a continuation of DHYG 412. Students will have the opportunity to continue clinical practice in dental hygiene services in a clinical setting with an emphasis on completing the dental hygiene process of care, implementation of patient care for a variety of patients, and placement of restorations on patients. $11.40 lab fee. $135 per quarter Dental Hygiene clinic fee. **Prerequisite: Concurrent enrollment in DHYG 413 and completion of DHYG 404, DHYG 408, DHYG 409, DHYG 411, and DHYG 412 with a minimum grade of 2.0.**

DHYG 415

Community Oral Health Practicum • 1.0 Credit

This course accompanies DHYG 418 and takes place outside of the classroom in an experiential learning format. Students engage in field-based community oral health activities and implement an oral health program or project. $11.40 lab fee. **Prerequisite: Completion of DHYG 404, DHYG 408, DHYG 409, DHYG 411, and DHYG 412 with a minimum grade of 2.0.**

DHYG 416

Educational Theory and Methodology • 2.0 Credits

In this course students will be introduced to educational methodology. Topics include: pre-assessment strategies to determine participants' knowledge level, creation of an overview and objectives to provide learners with a context for learning including giving targeted feedback, performance evaluation to enhance continual learning goals, selection among direct instruction, inquiry-based learning, and cooperative learning. **Prerequisite: Completion of DHYG 404, DHYG 408, DHYG 409, DHYG 411, and DHYG 412 with a minimum grade of 2.0.**

DHYG 417

Restorative Dentistry IV Lab • 1.0 Credit

This course is the final course in the restorative series and provides students an opportunity to practice skills related to placement and finishing of Class II, III, and IV amalgam and composite restorations, cusp build-ups, and restoring anterior teeth. **Prerequisite: Completion of DHYG 401, DHYG 402, DHYG 403, DHYG 407, and DHYG 410, all with a 2.0 or higher.**

DHYG 418

Community Oral Health - Research III • 1.0 Credit

This course accompanies DHYG 415 and serves as the final capstone in the Community Oral Health series. It provides students with the opportunity to demonstrate their cumulative knowledge in the community health field through evaluation of the implementation of a community-based program or project completed during the field experience.

Digital Marketing

MRKT 102
Introduction to Digital Marketing [RE] • 5.0 Credits
Provides an introduction to digital marketing concepts and how they can be used in a larger integrated marketing campaign. Students explore search engine marketing (SEM), search engine optimization (SEO), display advertising, online video, social media, mobile device marketing, content creation, e-commerce, and digital measurement/analytics.

MRKT 103
Social Media Strategy [RE] • 5.0 Credits
Students will learn the fundamentals of social media advertising and marketing, and how those skills impact a larger digital framework. This course is hands-on, and the curriculum is focused on the application of social media skills to craft an integrated marketing strategy and executive vision. **Prerequisite: Completion of BUS 265 with a 1.0 or higher.**

MRKT 104
Search Engine Strategy [RE] • 5.0 Credits
Students will learn the fundamentals of search engine marketing (SEM) and search engine optimization (SEO), and how those skills impact a larger digital framework. This course is hands-on, and the curriculum is focused on the application of search skills to craft an integrated marketing strategy and executive vision. **Prerequisite: Completion of BUS 265 with a 1.0 or higher.**

MRKT 150
Advertising [RE] • 5.0 Credits
This course presents the purpose of advertising. Aspects of social and economic influence on the overall marketing process, idea visualization, and the media plan, including the cost and results expected are covered. Management planning and control of advertising is emphasized. **Prerequisite: Completion of BUS 265 with a 1.0 or higher.**

MRKT 241
Measurement and Analytics [RE] • 5.0 Credits
Students will be introduced to information resources used in marketing. Students will develop proficiency with technology and its use in essential business applications and in marketing. Topics included are collecting and housing data sets, establishing business rules for data manipulation, aligning key performance indicators to larger business concerns, data visualization techniques, and interpreting and presenting findings to key decision makers. **Prerequisite: Completion of BUS 265, MRKT 102, AND CS 101, all with a 1.0 or higher.**

MRKT 251
Market Research [RE] • 5.0 Credits
This course presents basic research methods entailing procedures, questionnaire design, data analysis, and effectively communicating research results in the field of marketing. **Prerequisite: Completion of BUS 265 with a 1.0 or higher.**

MRKT 261
Online Video & TV Strategy [RE] • 5.0 Credits
Students will review the evolution from television to online platform video, including advertising. The class explores how marketing strategies and video tactics support the larger digital framework. This course is hands-on, and the curriculum is focused on the application of video skills to craft an integrated marketing strategy and executive vision. **Prerequisite: Completion of BUS 265, MRKT 102, MRKT 150, all with a 1.0 or higher.**

MRKT 271
Relationship Marketing [RE] • 5.0 Credits
Students will be introduced to the field of relationship marketing. It will promote students' proficiency with technology and its use in essential business applications and in marketing. Students will get practical, hands-on instruction along with case studies in topics that include the evolution from one-time sales to ongoing brand relationships, lifetime customer value, loyalty programs, customer service software, sales technologies, marketing automation, and customer relationship management (CRM) tools. **Prerequisite: Completion of BUS 265, MRKT 102, AND CS 101, all with a 1.0 or higher.**

Early Childhood Education

ECED& 100
Child Care Basics [RE] • 3.0 Credits
This course is designed to meet licensing requirements for early learning lead teachers and family home child care providers and the STARS 30 hour basics course recognized in the MERIT system. Topics: child growth/development, cultural responsiveness, community resources, guidance, health/safety/nutrition and professional practices.

ECED 102
Introduction to Curriculum [RE] • 3.0 Credits
Formerly ECE 102, ECED 102, ED 102, EDUC 102
Provides students with both a theoretical and practical understanding of the curriculum content in a developmentally appropriate setting for young children.

ECED 103
Art [RE] • 3.0 Credits
Formerly ECE 103, ECED 103
Provides the student with a basic understanding of the methods used for teaching visual art to young children in a developmentally appropriate manner. $15 ECED miscellaneous supplies fee.

ECED& 105
Intro to Early Childhood Education [RE] • 5.0 Credits
Students will explore the foundations of early childhood education. Examine theories defining the field, issues, trends, best practices, and program models. Observe children, professionals and programs in action.

ECED& 107
Health/Safety/Nutrition [RE] • 5.0 Credits
Formerly ECE 230, ECED& 107
Introduction to implementation of equitable health, safety and nutrition standards for the growing child in group care. Focus on federal Child Care Block Grant funding (CCDF) requirements, Washington state licensing and Head Start Performance standards. Develop skills necessary to keep children healthy and safe, report abuse and neglect, and connect families to community resources. $15 ECED miscellaneous supplies fee.

ECED 110
Preschool Seminar [RE] • 1.0–3.0 Credits
Provides an opportunity to participate in a short-term seminar relating to early childhood education.

ECED 112
Introduction to ELL Teaching Strategies [RE] • 3.0 Credits
Formerly ECE 112, ECED 112

Provides an overview of the philosophy and stages of language acquisition for English language learners in an early learning setting. A variety of instructional strategies are explored.

ECED 116
Eced Special Topics Symposium [RE] • 1.0–3.0 Credits
Formerly ECE 116, ECED 116
An opportunity to participate in a class dealing with special topics that relate to early childhood education but are not covered in depth in the existing curriculum.

ECED 117
Eced Seminar [RE] • 1.0–3.0 Credits
Formerly ECE 117, ECED 117
Provides an opportunity to participate in an intensive, short-term learning experience relating to early childhood education.

ECED 118
Skills Training [RE] • 1.0–3.0 Credits
Formerly ECE 118, ECED 118
Provides an opportunity to participate in a short-term skills training relating to early childhood education.

ECED 119
ECED Workshop [RE] • 1.0–3.0 Credits
Formerly ECE 119, ECED 119
An opportunity to participate in a workshop class relating to early childhood education.

ECED& 120
Practicum-Nurturing Relationships [RE] • 2.0 Credits
In an early learning setting students will engage in establishing nurturing, supportive relationships with all children and professional peers. Focus on children's health and safety, promoting growth and development, and creating a culturally responsive environment.

ECED 122
Math & Science [RE] • 3.0 Credits
Formerly ECE 122, ECED 122
Provides ideas for introducing developmentally appropriate math and science and concepts to young children. Students have an opportunity to develop and experience math and science learning activities.

ECED 124
Children's Literature [RE] • 3.0 Credits
Formerly ECE 120, ECED 124
Increases awareness of various types of literature for young children and explores meaningful ways to share high quality books in early care and education settings.

ECED 127
Music & Movement [RE] • 3.0 Credits
Formerly ECE 127, ECED 127
In this interactive class, students learn the importance of providing high quality music and movement activities in an early learning setting.

ECED& 132
Infants & Toddlers--Nurturing Care [RE] • 3.0 Credits
Formerly ECE 205, ECED& 132
Students will examine the unique developmental needs of infants and toddlers. Study the role of the caregiver, relationships with families, developmentally appropriate practices, nurturing environments for infants and toddlers, and culturally retentive care.

ECED& 134
Family Child Care Management [RE] • 3.0 Credits
Students will learn how to manage a family childcare program. Topics include licensing requirements, record-keeping, relationship building, communication strategies, guiding behavior, and promoting growth and development.

ECED& 138
Home Visitor/Family Engagement [RE] • 3.0 Credits
Plan and provide home visits and group activities. Promote secure parent-child relationships. Support families to provide high-quality early learning opportunities embedded in everyday routines and experiences.

ECED& 139
Administration of ECE [RE] • 3.0 Credits
Formerly ECE 215, ECED& 139
Students will develop administrative skills required to develop, operate, manage and improve early childhood education and care programs. Acquire basic business management skills. Explore resources and supports for meeting Washington state licensing and professional National Association for the Education of Young Children (NAEYC) standards.

ECED 141
Child Development Associate [RE] • 10.0 Credits
Formerly ECE 141, ECED 141
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant and toddler, center-based preschool, or family home child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential. This course is offered on an as-needed basis.

ECED 142
Child Development Associate [RE] • 1.0–10.0 Credits
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant and toddler, center-based preschool, or family home child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential.

ECED 143
Child Development Associate [RE] • 1.0–10.0 Credits
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant and toddler, center-based preschool, or family home child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential.

ECED 144
Child Development Associate [RE] • 1.0–10.0 Credits
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant and toddler, center-based preschool, or family home child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential.

ECED 145
Child Development Associate [RE] • 1.0–10.0 Credits
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant and toddler, center-based preschool, or family home child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential.

ECED 146
Child Development Associate [RE] • 1.0–10.0 Credits
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant and toddler, center-based preschool, or family home child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential.

ECED 147
Child Development Associate [RE] • 1.0–10.0 Credits
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant and toddler, center-based preschool, or family home child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential.

ECED 148
Child Development Associate [RE] • 1.0–10.0 Credits
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant and toddler, center-based preschool, or family home child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential.

ECED 149
Child Development Associate [RE] • 1.0–10.0 Credits
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant and toddler, center-based preschool, or family home child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential.

ECED 151
Field Experience Seminar [RE] • 3.0 Credits
Formerly ECE 151, ECED 151
Designed to be taken just before completion of the Early Childhood Education AAS degree, ECED 151 integrates theory and reflective practice through seminar discussion, case analysis, and professional skill development. Students examine their own teaching through structured self-evaluation and feedback, connecting ECE coursework to direct observation and practice in an early learning environment. Must be taken concurrently with ECED 152. **Prerequisite: Concurrent enrollment in ECED 152.**

ECED 152
Field Experience [RE] • 1.0 Credit
esigned to be taken just before completion of the Early Childhood Education AAS degree, ECED 152 is a supervised field experience taken concurrently with ECED 151. Students complete a minimum of 30 supervised hours in an approved childcare facility, applying and demonstrating competencies developed across the ECE program. Placement sites must meet Washington State childcare licensing requirements. Graded Satisfactory/Unsatisfactory. **Prerequisite: Concurrent enrollment in ECED 151.**

ECED 153
Child Development Associate [RE] • 1.0–10.0 Credits
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant and toddler, center-based preschool, or family home child care programs. Instruction focuses on CDA Competency Goals and prepares students for the National CDA assessment and credential.

ECED& 160
Curriculum Development [RE] • 5.0 Credits
Formerly ECE 202, ECED& 160
Students will investigate learning theory, program planning, tools and methods for curriculum development promoting language, fine/gross motor, social-emotional, cognitive and creative skills and growth in children birth through age 8 utilizing developmentally appropriate and culturally responsive practice.

ECED& 170
Environments for Young Children [RE] • 3.0 Credits
This class focuses on the adult's role in designing, evaluating, and improving indoor and outdoor environments that ensure quality learning, nurturing experiences, and optimize the development of young children.

ECED& 180
Language & Literacy Development [RE] • 3.0 Credits
Formerly ECE 126, ECED& 180
This course examines teaching strategies for language acquisition and literacy skill development examined at each developmental stage (birth-age 8) through the four interrelated areas of speaking, listening, writing, and reading.

ECED& 190
Observation/Assessment [RE] • 3.0 Credits
Formerly ECE 121, ECED& 190
Students will collect and record observation and assessment data in order to plan for and support the child, the family, the group, and the community. Practice reflection techniques, summarizing conclusions, and communicating findings.

ECED 201
Multicultural Education [RE] • 3.0 Credits
Formerly ECE 201, ECED 201, ED 160, EDUC 160
Explores the theory and practice of implementing a culturally responsive and inclusive early childhood program.

ECED 216
Advanced Special Topics [RE] • 1.0–3.0 Credits
Formerly ECE 216, ECED 216
An opportunity to participate in advanced classes dealing with special topics that relate to early childhood education but are not covered in depth in the existing curriculum.

ECED 217
Advanced Seminar [RE] • 1.0–3.0 Credits
Formerly ECE 217, ECED 217
Provides an opportunity to participate in an advanced short-term learning experience relating to early childhood education.

ECED 218
Advanced Skills Training [RE] • 1.0–3.0 Credits
Formerly ECE 218, ECED 218
Provides an opportunity to participate in an advanced short-term skills training relating to early childhood education.

ECED 219
Advanced Workshop [RE] • 1.0–3.0 Credits
Formerly ECE 219, ECED 219
An opportunity to participate in an advanced workshop class relating to early childhood education.

ECED 221
Strategies for Teaching Special Needs [RE] • 3.0 Credits
Formerly ECE 221, ECED 221
An introduction to teaching methods that can be used with children who have special needs in an inclusive early care & education setting. **Prerequisite: Completion of EDUC& 203 with a 0.7 or higher.**

ECED 222
Sign Language Level 1 [RE] • 3.0 Credits
Formerly ECE 222, ECED 222
An introduction to sign language using either the Signing Exact English (SEE) or American Sign Language (ASL) method. This course provides an opportunity for students to gain a better understanding of sign language, its application, and to build a basic signing vocabulary.

ECED 223
Sign Language Level 2 [RE] • 3.0 Credits
Formerly ECE 223, ECED 223
The level two sign language course broadens a student's knowledge of either Signing Exact English (SEE) or American Sign Language (ASL) and builds fluency and communication skills. **Prerequisite: Completion of ECED 222 with a 0.7 or higher, or instructor permission.**

ECED 224
Sign Language Level 3 [RE] • 3.0 Credits
Formerly ECE 224, ECED 224
Level three sign language broadens a student's knowledge of either Signing Exact English (SEE), or American Sign Language ASL, extending communication fluency and skills learned in the Level 1 or Level 2 sign language classes. **Prerequisite: Completion of ECED 223 with a 0.7 or higher, or instructor permission.**

ECED 251
Advanced Supervised Practicum [RE] • 1.0–3.0 Credits
Formerly ECE 251, ECED 251
Designed to be taken just before completion of an Early Childhood Education certificate or degree, this class combines the Early Childhood Education content learned in previous classes with practical application for students who need further experience. Emphasis is on improving personal teaching skills while gaining on-the-job experience working with professionals in an early learning setting.

ECED 252
Advanced Supervised Practicum Lab [RE] • 1.0 Credit
Designed to be taken just before completion of an Early Childhood Education certificate or degree, this class combines the Early Childhood Education content learned in previous classes with practical application for students who need further experience. Emphasis is on improving personal teaching skills while gaining on-the-job experience working with professionals in an early learning setting. Grade is pass/no credit.

ECED 280
Special Studies Lab [RE] • 1.0–3.0 Credits
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 281
Special Studies Lab [RE] • 1.0–15.0 Credits
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 282
Special Studies Lab [RE] • 1.0–15.0 Credits
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 283
Special Studies Lab [RE] • 1.0–15.0 Credits
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 284
Special Studies Lab [RE] • 1.0–15.0 Credits
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 285
Special Studies Lab [RE] • 1.0–15.0 Credits
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 286
Special Studies Lab [RE] • 1.0–15.0 Credits
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 287
Special Studies Lab [RE] • 1.0–15.0 Credits
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 288
Special Studies Lab [RE] • 1.0–15.0 Credits
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 289
Special Studies [RE] • 1.0–15.0 Credits
Formerly ECE 289, ECED 289
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 300
Social Studies for Teachers • 5.0 Credits
An overview of the main concepts in social studies for early childhood teachers including topics in history, civics, geography, economics, and global issues. **Prerequisite: Admission into the BASTE program at CBC.**

ECED 301
Inquiry Based Science for Teachers • 3.0 Credits
An overview of the main concepts in natural science for early childhood teachers including topics in earth/space science, life science, physical science, and engineering design. Lab included. **Prerequisite: Admission into the BASTE program at CBC.**

ECED 307
Health and Physical Education Learning Standards • 2.0 Credits
This course will prepare students to plan for comprehensive health and fitness education in early learning programs serving children birth to grade three who are culturally, linguistically, and ability diverse and their families, including the dimension of wellness such as physical, emotional, and social well-being. **Prerequisite: Admission into the BASTE program at CBC.**

ECED 325
Advanced Math Methods • 3.0 Credits
Student will develop a deep understanding of the development of spatial and mathematical learning across all strands: number & operations, algebra, geometry, measurement, and data analysis & probability. There will be an emphasis on the content included in the state early learning guidelines and standards for children birth through grade three and their families who are culturally, linguistically, and ability diverse. **Prerequisite: Admission into the BASTE program at CBC.**

ECED 340
Assessment and Evaluation • 5.0 Credits
This course will prepare student to select, administer, score, and interpret formal assessment tools. Evaluate students for placement into special education programs. Develop Individual Education Plans (IEPs), Individual Family Service Plans (IFSPs), and 504 plans for children birth to third grade who are culturally, linguistically, and ability diverse and their families. **Prerequisite: Admission into the BASTE program at CBC.**

ECED 365
Observations, Documentation, and Monitoring • 3.0 Credits
Students will develop skills and strategies for observing, documenting and monitoring children birth to grade three who are culturally, linguistically and ability diverse and their families. Strategies for tracking progress toward meeting Individual Education Plan (IEP) and Individual Family Service Plan (IFSP) goals will also be addressed. **Prerequisite: Admission into the BASTE program at CBC.**

ECED 370
Adaptations, Modifications, and Planning • 5.0 Credits
Students will use evidence based strategies to adapt and modify curriculum and environments for individual children birth to grade three who are culturally, linguistically, and ability diverse and their families. Create lesson plans for children based on Individual Education Plans (IEP), Individual Family Services Plans (IFSP) goals, and 504 plans. **Prerequisite: Admission into the BASTE program at CBC.**

ECED 385
Advanced Language and Literacy Methods • 3.0 Credits
Students will be able to refine teaching strategies for language acquisition and literacy skill development for children who are culturally, linguistically, and ability diverse at each developmental stage birth through grade three, through the four interrelated areas of speaking, listening, writing, and reading. There will be an emphasis on strategies for teaching reading and how to support each stage of literacy development across genres and purposes. Strategies for supporting families as they assist their children in learning language and literacy will also be addressed. **Prerequisite: Admission into the BASTE program at CBC.**

ECED 395
Equity and Social Justice • 3.0 Credits
Students will develop skills needed to effectively collaborate with others including school personnel, community agency personnel, and families to support children birth to third grade who are culturally, linguistically, and ability diverse and their families. Supervision of assistants and paraprofessionals will also be addressed. **Prerequisite: Admission into the BASTE program at CBC.**

ECED 479
Fall Student Teaching • 15.0 Credits
Students will gain experience working in an education setting with children birth through grade three who are culturally, linguistically, and ability diverse and their families under the supervision of a certificated teacher with an emphasis on building relationships and guiding behavior. Grade is pass/no credit. **Prerequisite: Completion of ECED& 105 with a 0.7 or higher, admission into the BASTE program at CBC, department permission, and a criminal background check required.**

ECED 489
Winter Student Teaching • 15.0 Credits
Students will demonstrate effective teaching practice and experience working in an education setting with children birth through grade three who are culturally, linguistically, (including English language learners), and ability diverse and their families under the supervision of a certified teacher, with an emphasis on pedagogy in accordance with instructional frameworks in Washington state. Apply the use of technology for technology for assessment, instruction, and family engagement. Grade is pass/no credit. **Prerequisite: Completion of ECED& 105 with a 0.7 or higher, admission into the BASTE program at CBC, department permission, and a criminal background check required.**

ECED 499
Spring Student Teaching • 15.0 Credits
Students will gain experience working in an education setting, with children birth through grade three who are culturally, linguistically (including English language learners), and ability diverse and their families under the supervision of a certificated teacher, with an emphasis on using data to improve practices. Apply the use of technology for technology for assessment, instruction, and family engagement. Grade is pass/no credit. **Prerequisite: Completion of ECED& 105 with a 0.7 or higher, admission into the BASTE program at CBC, department permission, and a criminal background check required.**

Economics

ECON 110
Economic Trends, Issues and Policy [S/B] • 5.0 Credits
Formerly EC 110, ECON 110
An entry-level, general education course which introduces and surveys basic macroeconomic and microeconomic principles. This course emphasizes the causes and consequences of the business cycle on output, employment, and prices as well as, basic supply and demand analysis across different market structures. This course also analyzes the differential impacts on populations. Analysis includes the role of the government in the economy and whether policies ameliorate or worsen economic outcomes.

ECON 116
Economic Development of the United States • 5.0 Credits
Formerly EC 116, ECON 116
This class is a history of the American economy. It looks at the evolution of American economic institutions, from the colonial period, early statehood, the American Civil War, westward expansion, the impact of the two world wars, and the Great Depression that was between them. It looks at the regional and occupational specialization that enables the colonial economy to grow internally and to fit itself into the world economy that nurtured it.

ECON 199
Special Studies • 1.0–5.0 Credits
A class used to explore new coursework.

ECON& 201
Micro Economics [S/B] • 5.0 Credits
Formerly EC 202, ECON& 201

Economic theory and analysis as applied to consumer and producer behavior in markets. Emphasizes the allocation of resources and the distribution of income through the price mechanism, and deals with the microeconomic concepts of equilibrium in product and factor markets, perfect and imperfect competition, government intervention in the private sector, and international trade and finance. **Prerequisite: Completion of MATH 50 with a 2.0 or better, or completion of a higher math class with a 1.0 or better, or appropriate placement.**

ECON& 202
Macro Economics [S/B] • 5.0 Credits
Formerly EC 201, ECON& 202
This course studies the overall economy, how the equilibrium level of national income is determined, and its allocation among consumers, businesses, and the government. Particular attention will be paid to the impact of government fiscal and monetary policies on macroeconomic equilibrium and issues such as unemployment, inflation, economic fluctuations and growth, and government debt.

ECON 291
History of American Economic Development [S/B] • 1.0–5.0 Credits
Formerly EC 291, ECON 291
Concise overview of the basic elements of microeconomics and macroeconomics. Economic analysis is used to understand the major economic forces in American history with emphasis on those factors which aided growth and development. Economic theory is applied to understand and evaluate current social and economic problems in contemporary American society.

ECON 299
Special Studies • 1.0–5.0 Credits
A class used to explore new coursework.

ECON 305
Managerial Economics [S/B] • 5.0 Credits
The course covers allocation of resources, economic systems, economics institutions and incentives, markets structures and prices, productivity, international economics, the global marketplace, aggregate supply and demand, and public policy towards business. As a final project, students, using information from the class, prepare a report as to how economics impacts a specific business/company. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

ECON 310
Comparative Economic System • 5.0 Credits
ECON 310 first classifies and then examines the major economic systems of the world. The course focuses on a general understanding of how economic systems work and how economic theories of growth and development interact with government policy, history, and culture to explain economic performance of different countries. Economies examined in some detail include several advanced market capitalist countries (e.g., the former Soviet Union, Poland, and China), and other East Asian economies (e.g., South Korea, Malaysia, and India). The economies in Africa and Middle East are also covered. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

ECON 315
Economics of Healthcare [S/B] • 5.0 Credits
Covers the allocation, production, and distribution of healthcare in our economy. Examines how healthcare demand differs from that of other goods. Major topics include: cost and benefit evaluation methods, the demand for medical care including the law of demand, short run and long run costs of medical care, supply and demand, market structures, and the role of government in healthcare. The various segments of the healthcare industry are also studied. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

Education

EDUC 101
Introduction to Education • 4.0 Credits
Formerly ED 101, EDUC 101
Students receive an overview of the history and philosophy of education, as well as develop an awareness of current educational requirements based on legislation for K-12 schools. Students also begin to develop a personal philosophy of education.

EDUC 108
Paraeducator In Schools [RE] • 3.0 Credits
Formerly ED 108, EDUC 108
Explore paraeducator roles and responsibilities in the delivery of educational services to students and certified/licensed staff. Demonstrate knowledge of selected core competencies for paraeducators in order to work effectively with a diverse student population.

EDUC 111
Introduction to Instructional Strategies [RE] • 5.0 Credits
Formerly ED 111, EDUC 111
An overview of instructional strategies including theory and practical application within the K-12 classroom.

EDUC 112
Introduction to ELA Teaching Strategies [RE] • 3.0 Credits
Formerly ED 112, EDUC 112
Provides an overview of the philosophy and stages of language acquisition for second language learners, K-12. Models and instructional strategies are explored and language assessment tools are examined.

EDUC& 114
Child Development [RE] • 3.0 Credits
Formerly ECE 106, EDUC& 114
A study of the physical, emotional, social, and cognitive development of children from conception through eight years of age and related theories. Emphasis is given to current early childhood brain development research.

EDUC& 115
Child Development [S/B] • 5.0 Credits
Formerly ED 106, EDUC 106, EDUC& 115
Build a foundation for explaining how children develop in all domains, conception through early adolescence. Explore various developmental theories, methods for documenting growth, and impact of brain development. Topics addressed: stress, trauma, culture, race, gender identity, socioeconomic status, family status, language, and health issues.

EDUC 117
Seminar [RE] • 1.0–3.0 Credits
Formerly ED 117, EDUC 117
Provides an opportunity to participate in an intensive, short-term learning experience relating to the field of early childhood education.

EDUC 128
Introduction to Math Instruction [RE] • 5.0 Credits
Formerly ED 128, EDUC 128
An introduction to math instruction including math reform philosophy, theory, and practical application within the K-12 system.

EDUC& 130
Guiding Behavior [RE] • 3.0 Credits
Formerly ECE 104, EDUC& 130
Students will examine the principles and theories promoting social competence in young children and creating safe learning environments. Develop skills promoting effective interactions, providing positive individual guidance, and enhancing group experiences.

EDUC& 136
School Age Care [RE] • 3.0 Credits
Students will develop skills to provide developmentally appropriate and culturally relevant activities/care for children ages 5-12 in a variety of settings. Topics include: implementation of curriculum, preparation of environments, building relationships, guiding cognitive and social emotional development, and community outreach.

EDUC& 150
Child/Family/Community [RE] • 3.0 Credits
Formerly ECE 209, EDUC& 150
Students will integrate the family and community contexts in which a child develops. Explore cultures and demographics of families in society, community resources, strategies for involving families in the education of their child, and tools for effective communication.

EDUC 153
Paraeducation Supervised Practicum [RE] • 4.0 Credits
Designed to be taken just before completion of the paraeducation certificate, this class combines the paraeducation course content with practical application. Emphasis is on improving personal teaching skills while gaining on-the-job experience working with professionals in the field. Grade is pass/no credit.

EDUC 197
Field Experience [RE] • 1.0–2.0 Credits
Students have an opportunity to observe theory in action and to gain experience in the field of education. This class must be taken in conjunction with EDUC 101. Grade is pass/no credit.

EDUC 199
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

EDUC& 203
Exceptional Child [RE] • 3.0 Credits
Formerly ECE 107, EDUC& 203
A comprehensive introduction to the field of special needs children and their families, including an examination of legislative action, Individualized Education Program (IEP), handicapping conditions, child abuse, drug and alcohol effects, and socioeconomic, societal, and cultural factors that affect family functioning.

EDUC 299
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

EDUC 330
Anti-Bias Education • 5.0 Credits
This course examines identity, power, and systemic inequities within educational contexts and their impact on learners, families, and communities. Candidates analyze how bias operates within curriculum, instruction, assessment, and institutional structures. Emphasis is placed on designing and enacting culturally and linguistically responsive instructional practices that promote equitable access to learning. Through critical reflection and applied clinical experiences, candidates develop strategies to disrupt bias and foster inclusive classroom communities. **Prerequisite: Admission into the BASTE program at CBC.**

EDUC 340
Equitable Inclusion for Multilingual Learners • 5.0 Credits
This course examines instructional frameworks and research-based practices that support multilingual learners in early and elementary educational settings. Emphasis is placed on integrating language development with academic content, designing linguistically responsive instruction, and utilizing culturally sustaining pedagogies that promote equitable access to learning. Candidates analyze language acquisition processes, evaluate assessment practices, and implement instructional strategies during clinical experiences to support multilingual learners¿ academic and linguistic growth. **Prerequisite: Admission into the BASTE program at CBC.**

EDUC 350
Portfolio and Professional Assessment • 5.0 Credits
This course supports candidates during full-time clinical practice in the development of a professional portfolio aligned with program outcomes and certification requirements. Emphasis is placed on evidence-based instructional decision-making, analysis of student learning, professional reflection, and ethical practice. Candidates collect, analyze, and synthesize artifacts from their clinical experiences to demonstrate growth in planning, instruction, assessment, and professional collaboration. The course prepares candidates to articulate and defend their pedagogical decisions within professional contexts. **Prerequisite: Acceptance into the BASTE program at CBC, completion of EDUC 401 and EDUC 411 with a 2.0 grade or better, and concurrent enrollment in EDUC 402 and EDUC 412.**

EDUC 360
Introduction to Special Education • 5.0 Credits
This course examines the legal, historical, and instructional foundations of special education within inclusive educational settings. Emphasis is placed on understanding characteristics of learners with diverse abilities, implementing evidence-based instructional strategies, and collaborating within multi-tiered systems of support. Candidates analyze Individualized Education Programs (IEPs), apply principles of Universal Design for Learning (UDL), and design inclusive instructional practices that promote equitable access for learners across a continuum of needs. Clinical experiences are used to connect theory to inclusive classroom practice. **Prerequisite: Admission into the BASTE program at CBC.**

EDUC 370
Professionalism, Collaboration, and Classroom Leadership • 2.0 Credits
This course develops essential professional skills for effective collaboration with families, colleagues, community agencies, and support personnel in inclusive educational settings. Emphasis is placed on ethical practice, collaborative problem-solving, supervision of assistants and paraprofessionals, and the development of inclusive classroom organizational practices. Candidates examine their roles within professional communities and engage in structured reflection to support continued professional growth and leadership development.

Prerequisite: Acceptance into the BASTE program at CBC, completion of EDUC 350, EDUC 402, and EDUC 412 with a 2.0 grade or better, and concurrent enrollment in EDUC 403 and EDUC 413.

EDUC 401
Reflective Seminar I • 1.0 Credit
This seminar supports candidates during Student Teaching I through structured reflection and professional goal setting. Emphasis is placed on applying the BAS-TE lesson planning framework, interpreting mentor feedback, and developing professional dispositions aligned to effective teaching practice. Candidates engage in guided reflection to connect pedagogical theory with clinical experience and establish goals for continued instructional growth. This course is taken concurrently with EDUC 411 Student Teaching I. **Prerequisite: Acceptance into the BAS-TE program at CBC and concurrent enrollment in EDUC 411.**

EDUC 402
Reflective Seminar II • 1.0 Credit
This seminar supports candidates during full-time Student Teaching II through structured reflection on instructional effectiveness, professional communication, leadership, and collaboration. Emphasis is placed on analyzing student learning evidence, strengthening professional responsibility, and refining instructional decision-making. Candidates engage in guided dialogue and feedback processes to support continued growth in autonomous teaching practice. This course is taken concurrently with EDUC 412 Student Teaching II. **Prerequisite: Acceptance into the BASTE program at CBC, completion of EDUC 401 and EDUC 411 with a 2.0 grade or better, and concurrent enrollment in EDUC 350 and EDUC 412.**

EDUC 403
Reflective Seminar III • 3.0 Credits
This seminar supports candidates during Student Teaching III through structured analysis of instructional practice and student learning within diverse classroom contexts. Emphasis is placed on examining language development, evaluating instructional and assessment decisions, and refining practices to promote equitable outcomes for culturally, linguistically, and ability diverse learners, including multilingual learners. Candidates engage in collaborative inquiry, case discussion, and reflective analysis to strengthen professional reasoning and instructional effectiveness. This course is taken concurrently with EDUC 413 Student Teaching III. **Prerequisite: Acceptance into the BASTE program at CBC, completion of EDUC 350, EDUC 402, and EDUC 412, all with a 2.0 or better, and concurrent enrollment in EDUC 370 and EDUC 413.**

EDUC 411
Student Teaching I • 4.0 Credits
This course initiates the clinical practice sequence through supervised field experience in an educational setting serving culturally, linguistically, and ability diverse learners, including multilingual learners (MLLs). Candidates engage in structured observation, guided co-teaching, and gradual assumption of instructional responsibility under the supervision of a certificated mentor teacher. Emphasis is placed on applying pedagogical theory to practice, developing inclusive instructional strategies, and engaging in reflective goal setting. This is the first of three required student teaching courses and is taken concurrently with EDUC 401 Reflective Seminar I. Grade is pass/no credit. **Prerequisite: Acceptance into the BASTE program at CBC and concurrent enrollment in EDUC 401.**

EDUC 412
Student Teaching II • 10.0 Credits
This course advances the clinical experience to full-time, autonomous student teaching under the supervision of a certificated mentor teacher. Candidates assume primary instructional responsibility, including planning, instruction, assessment, and classroom leadership in settings serving culturally, linguistically, and ability diverse learners. Emphasis is placed on instructional effectiveness, analysis of student learning, collaborative professionalism, and reflective refinement of practice. This is the second of three required student teaching courses and is taken concurrently with EDUC 402 Reflective Practice II. Grade is pass/no credit. **Prerequisite: Acceptance into the BASTE program at CBC, completion of EDUC 401 with a 2.0 or higher, completion of EDUC 411 with a P, and concurrent enrollment in EDUC 350 and EDUC 402.**

EDUC 413
Student Teaching III • 2.0 Credits
This course culminates the clinical practice sequence through continued supervised field experience in an educational setting serving culturally, linguistically, and ability diverse learners. Candidates demonstrate sustained instructional effectiveness, refine assessment practices, and assume increased professional responsibility within their clinical placements. Emphasis is placed on analyzing student learning evidence, adapting instruction to meet diverse learner needs, and demonstrating readiness for professional practice. This course is taken concurrently with EDUC 370 Professionalism, Collaboration, and Classroom Leadership and EDUC 403 Reflective Seminar III. Grade is pass/no credit **Prerequisite: Acceptance into the BASTE program at CBC, completion of EDUC 350 and EDUC 402 with a 2.0 grade or better, completion of EDUC 412 with a P grade, and concurrent enrollment in EDUC 370 and EDUC 403.**

Electronics

ELT 101
Basic Electricity [RE] • 5.0 Credits
This course provides an introduction to the basic concepts of electricity including series and parallel circuits, AC and DC currents, transformers, resistance, capacitors, multimeter use, and troubleshooting.

ELT 111
Introduction to Electricity [RE] • 5.0 Credits
Introduction to the basic concepts of electricity, electrical fundamentals, and electronics. Includes AC and DC currents, heaters and heat tracing, electrical supply and control components, and electronic systems. **Prerequisite: A grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

ELT 124
Direct Current Circuits [RE] • 5.0 Credits
Basic principles of electricity and the applications of the fundamental laws to direct current networks. A study of electrical components, magnetism, inductance, capacitance, and elementary network analysis. **Prerequisite: Students must be accepted into CBC's Nuclear Technology program prior to enrollment.**

ELT 134
Alternating Current Circuits [RE] • 5.0 Credits
Fundamental principles of alternating current: sinusoidal and non-sinusoidal. A study of impedance, phase shift, coupling networks,

transformers, and series and parallel resonance using standard vector notation. **Prerequisite: Completion of ELT 124 with a 0.7 or higher.**

ELT 154
Semiconductors and Op Amps [RE] • 5.0 Credits
Introduces semiconductor devices and associated circuits with diodes, special purpose diodes, and various types of transistors (BJT, FETs, Thyristors, etc.), then concludes with Operational Amplifiers (Op Amps). Circuit application and troubleshooting is applied with all components. **Prerequisite: Completion of ELT 134 with a 0.7 or higher.**

ELT 171
Digital Fundamentals [RE] • 5.0 Credits
Builds upon basic instrumentation and control knowledge and skills from previous classes. Focuses on developing the knowledge and skills in number systems, digital logic circuits, implementation technology and logic functions, arithmetic circuits, and sequential logic circuit building blocks. **Prerequisite: Completion of ELT 154 with a 0.7 or higher.**

ELT 199
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

ELT 201
Basic Electronics [RE] • 5.0 Credits
This course covers the concepts of electrical fundamentals and electronics including Ohm's and Kirchoff's Laws; series, parallel, and compound circuits; motors, relays, switches, inverters, converters; power distribution, wiring and routing; soldering, terminals, splicing; and troubleshooting.

ELT 211
Applied Electronics [RE] • 5.0 Credits
Broad-based course designed to apply knowledge and skills to the maintenance and operation of electrical components related to power plant instrumentation and controls. **Prerequisite: Completion of ELT 124 with a 0.7 or higher.**

Emergency Medical Technician

EMT 101
Emergency Medical Technician-Basic [RE] • 12.0 Credits
This is the entry-level course to the Emergency Medical Service (EMS) profession and is designed for those who aspire to become an Emergency Medical Technician-Basic. This course focuses on: EMT roles and responsibilities, airway management, patient assessment, medical and trauma emergencies, anatomy and physiology, documentation, lifting and moving, and communications. This course also includes practical labs and a total of 10 hours of clinical experience in the Emergency department to provide direct hands-on experience with a variety of patients. Upon successful completion of this course, students are eligible to take the National Registry Certification Exam. In order to certify as an EMT in the state of Washington, the EMT candidate must affiliate with a state approved pre-hospital care organization. For more information, please see the Washington State Department of Health website. $10.72 per quarter malpractice insurance fee. $96 EMT lab fee. **Prerequisite: Students must be accepted into CBC's EMT program prior to enrollment. Completion of ENGL 99 is strongly recommended.**

EMT 105
EMT IV Technician [RE] • 5.0 Credits
The EMT IV Technician course is designed to provide foundational skills and knowledge for emergency medical technicians (EMTs) to perform intravenous (IV) therapy safely and effectively in the pre-hospital environment. Based on the Washington State EMT IV curriculum, this course covers essential topics such as anatomy and physiology of the circulatory system, IV equipment and supplies, proper insertion techniques, fluid management, and monitoring patients during IV administration. Students will learn to assess patients, determine the need for IV therapy, and manage common complications. The course emphasizes hands-on skills practice, safety protocols, and best practices for patient care. Upon successful completion, students will be prepared to provide advanced pre-hospital care, contributing to better patient outcomes in emergency medical situations. Internship requirement of 20 successful IV¿s will be required at the conclusion of didactic training. Internship must be completed prior to receiving a certificate of completion. $150 course fee per quarter. **Prerequisite: Instructor permission required. One year of EMT experience required.**

Engineering Technology

ENT 111
Introduction to Engineering [RE] • 5.0 Credits
This course introduces students to the role of the engineer, engineering dimensions and standards, and the basic methodology of engineering problem-solving. $35 science fee. **Prerequisite: A grade of 2.0 or better in MATH 70 or 72, or concurrent enrollment in MATH 70 or 72 or a higher math class, or a grade of 0.7 or better in a higher math class, or appropriate placement, or instructor permission.**

ENT 114
Introduction to Drafting [RE] • 4.0 Credits
Formerly ENT 114, ENT 116
Basic principles of drafting and introduction to CAD to include spatial visualization, line types, sketching, scale, orthographic projection, isometric drawings, sectional views, oblique lines and surfaces, auxiliary views and basic applications. $35 science fee.

ENT 121
Engineering Fundamentals W/ Lab [RE] • 4.0 Credits
Fundamental concepts relevant to many engineering disciplines, including: energy, vectors, force systems, free body diagrams, strength of materials, associated problem-solving, and basic design procedures. $35 science fee. **Prerequisite: Completion of ENT 111 with a 2.0 or better.**

ENT 122
Materials [RE] • 3.0 Credits
An introduction to the materials which are used in the fabrication of construction projects including: foundations, wood, heavy timber frame construction, wood light frame construction, exterior finishes, interior finishes, masonry, roofing, and glass. $35 science fee.

ENT 124
Intermediate Drafting [RE] • 4.0 Credits
Formerly ENT 124, ENT 125
Intermediate principles of drafting and CAD to include spatial visualization, line types, sketching, scale, orthographic projection, isometric drawings, sectional views, oblique lines and surfaces, auxiliary views and intermediate applications. $35 science fee. **Prerequisite: A grade of 2.0 or better in ENT 114 or instructor permission.**

ENT 128
Architecture & Engineering Blueprint Reading [RE] • 2.0 Credits
An overview of the techniques used in reading construction drawings for architecture and engineering projects. $35 science fee.

ENT 134
Surveying W/ Lab [RE] • 6.0 Credits
A course in plane surveying which includes: horizontal, vertical, and angular measurements, traversing, mapping, construction survey, land survey, and calculations. $35 science fee. **Prerequisite: Completion of MATH 113 or MATH& 142, both with a 2.0 or better, or appropriate placement, or instructor permission.**

ENT 135
Statics [RE] • 5.0 Credits
Vectors, types of forces, vector addition, moments, conditions for equilibrium, free-body diagrams and conventions, coplanar force systems, and load analysis of basic trusses and frames. $35 science fee. **Prerequisite: Completion of MATH 113 or MATH& 142 with a 2.0 or better, or appropriate placement, and completion of ENT 121 with a 2.0 or better, or instructor permission.**

ENT 136
Advanced Drafting [RE] • 4.0 Credits
Advanced principles of drafting and CAD to include 3D projects, plan and profile drawings, advanced views, advanced sections, and dimensioning. $35 science fee. **Prerequisite: Completion of ENT 124 with a grade of 2.0 or better, or instructor permission.**

ENT 214
Strength of Materials [RE] • 5.0 Credits
A study of stress and deformation of materials. Topics include: axial and torsional loading, stress-strain relationships, shearing stresses, temperature stresses, and engineering applications. $35 science fee. **Prerequisite: Completion of ENT 135 with a 2.0 or better, or instructor permission.**

ENT 216
Mechanical Drafting & Design [RE] • 5.0 Credits
Fundamentals of design, assembly drawings, dimensioning systems, and a mechanical design/drafting project. The primary emphasis of this course is the application of CAD to mechanical and 3-D drawings using AutoCAD. $35 science fee. **Prerequisite: Completion of ENT 136 with a 2.0 or better, or instructor permission.**

ENT 219
Construction Estimating [RE] • 1.0 Credit
An overview of the techniques used in estimating material quantities in construction projects. $35 science fee. **Prerequisite: Completion of ENT 111, ENT 122, and ENT 128, all with a 2.0 or better, or instructor permission.**

ENT 224
Structures [RE] • 5.0 Credits
Load analysis and design of basic structural members using timber and steel. $35 science fee. **Prerequisite: Completion of ENT 214 with a 2.0 or better, or instructor permission.**

ENT 226
Architectural/Structural Drafting [RE] • 5.0 Credits
A drafting and design course covering construction techniques, architectural drawings, organization of drawing sets, and design projects. $35 science fee. **Prerequisite: Completion of ENT 136 with a 2.0 or better, or instructor permission.**

ENT 229
Construction Specifications [RE] • 2.0 Credits
A study of construction specifications using the CSI format. $35 science fee. **Prerequisite: A grade of 2.0 or higher in ENT 219, and a grade of 2.0 or higher or concurrent enrollment in ENGL&101, or instructor permission.**

ENT 236
Design [RE] • 5.0 Credits
Various individual and team projects with specific criteria and constraints assigned. The completed projects are formally presented using both oral and written reporting techniques. $35 science fee. **Prerequisite: Completion of ENT 224 and ENT 226, both with a 2.0 or higher.**

ENT 238
Electricity [RE] • 5.0 Credits
An introductory course in electricity which includes: basic electrical theory and mathematical relationships, series and parallel circuits, DC and AC circuit components, power generation and distribution. $35 science fee. **Prerequisite: Completion of MATH& 141 with a 2.0 or higher, and completion of either PHYS& 115 or PHYS& 222 both with a 2.0 or higher, or instructor permission.**

English

ENGL 90
Writing Express [RE] • 1.0–3.0 Credits
Formerly ENG 90, ENGL 90
An intensive composition course designed to prepare students for college reading and writing. Successful completion of this course makes the student eligible for ENGL& 101. Grade is pass/no credit.

ENGL 91
Grammar Skills [RE] • 5.0 Credits
Formerly ENG 91, ENGL 91
A review of basic grammar including sentence writing and editing, sentence structure, usage, and mechanics. Grade is pass/no credit. **Prerequisite: Placement into ENGL 91.**

ENGL 95
English Review [RE] • 5.0 Credits
Formerly ENG 95, ENGL 95
A study of basic grammar and beginning paragraph writing. This is a review class to better prepare students to continue to more advanced English courses. Grade is pass/no credit.

ENGL 97
Special Studies [RE] • 5.0 Credits
A class used to explore new coursework.

ENGL 98
Writing Prep I [RE] • 5.0 Credits
Formerly ENG 98, ENGL 98
This course is designed to teach the basics of writing well-developed and grammatically correct single and multiple paragraph papers. Grade is pass/no credit. **Prerequisite: Completion of ENGL 91 with a 0.7 or higher, or placement into ENGL 98.**

ENGL 99
Writing Prep II [RE] • 5.0 Credits
Formerly ENG 99, ENGL 99
An intensive composition course designed to prepare students for college reading and writing. Successful completion of this course makes the student eligible for ENGL& 101. Grade is pass/no credit.

ENGL& 101
English Composition I [C] • 5.0 Credits
Formerly ENG 101, ENGL& 101
Study and application of the principles of writing clear exposition with emphasis on organizing unified and coherent essays. **Prerequisite: A passing grade in either ENGL 90 or ENGL 99, or placement into ENGL& 101.**

ENGL& 102
Composition II [C] • 5.0 Credits
Formerly ENG 201, ENGL& 102
An advanced expository writing course focusing on research essays and other aspects of college writing. **Prerequisite: Completion of ENGL& 101 with a 1.0 or better.**

ENGL 103
Writing In The Workplace [RE] • 5.0 Credits
Formerly ENG 103, ENGL 103
This course is designed to teach writing tasks encountered in the workplace including resumes, business letters, memos, reports, instructions, and policies. **Prerequisite: A passing grade in either ENGL 90 or ENGL 99, or placement into ENGL& 101.**

ENGL& 111
Intro to Literature [H] • 5.0 Credits
Formerly ENGL& 111, LIT 150
This course focuses on reading and analyzing prose, poetry, and drama and is designed to help students develop a method of reading and evaluating literature. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 140
The Cinema [H] • 5.0 Credits
Formerly ENGL 140, LIT 140
The study of cinema and its narrative function; presentation of alternative modes of narrative structure; comparative analyses of original texts and their filmic adaptations. **Prerequisite: Completion of ENGL 99 with a 0.7 or higher, or concurrent enrollment in ENGL99.**

ENGL 160
Women's Literature [H] • 5.0 Credits
Formerly ENGL 160, LIT 160
This course is a study of the ways women represent female experience and question cultural norms through the literary arts. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 180
Multicultural Literature [H] • 5.0 Credits
Formerly ENGL 180, LIT 180
Introduction to the multicultural literatures of the Americas (i.e., African American literature, Native American literature, Hispanic American literature, Asian American literature, etc). **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 195
Bible As Literature [H] • 5.0 Credits
Formerly ENGL 195, LIT 195
Readings from the Old Testament and New Testament, in appropriate cultural, historical, and literary contexts. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

ENGL 203
Mythology [H] • 5.0 Credits
Formerly ENGL 203, LIT 203
The theory of mythology and the use of Greco-Roman myths in art and literature. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 210
Intro to Linguistics [H] • 5.0 Credits
Formerly ENG 210, ENGL 210
An introduction to the study of human language from the standpoint of sounds and sound patterns, word formation, and sentence structure. Students learn about the similarities and differences among the world's languages and are introduced to the various sub-disciplines of the field of linguistics. **Prerequisite: Completion of ENGL& 101 with a 0.7 or higher, or concurrent enrollment in ENGL& 101.**

ENGL& 220
Intro to Shakespeare [H] • 5.0 Credits
Formerly ENGL& 220, LIT 270
Introduction to Shakespeare's artistic writings. Emphasis is on understanding the culture, language, and ideas. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL& 235
Technical Writing [C] • 5.0 Credits
Formerly ENG 105, ENG 205, ENGL& 235
This course emphasizes students' technical communication skills for use in the workplace and other academic settings. Students employ various methods of analyzing and writing for different audiences and purposes. Students also use traditional and online resources for problem-solving, research, documentation, and editing. **Prerequisite: Completion of ENGL& 101 with a 1.0 or better.**

ENGL& 236
Creative Writing I [H] • 5.0 Credits
Formerly ENG 240, ENGL& 236
A study of creative writing, emphasizing diverse styles and techniques. It is strongly recommended that students complete ENGL& 101 prior to enrollment.

ENGL& 237
Creative Writing II [H] • 5.0 Credits
Formerly ENG 241, ENGL& 237
A continuation of ENGL& 236. **Prerequisite: Completion of ENGL& 236 with a 0.7 or higher.**

ENGL& 244
American Literature I [H] • 5.0 Credits
Formerly ENGL& 244, LIT 225
A survey of American literature from the founding of Jamestown to the Civil War Era. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL& 245
American Literature II [H] • 5.0 Credits
Formerly ENGL& 245, LIT 226
A survey of American literature from Civil War to World War I. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL& 246
American Literature III [H] • 5.0 Credits
Formerly ENGL& 246, LIT 227
A survey of American literature from World War I to the present. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL& 254
World Literature I [H] • 5.0 Credits
Formerly ENGL& 254, LIT 205
A survey of world literature from ancient times through the Roman Empire. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL& 255
World Literature II [H] • 5.0 Credits
Formerly ENGL& 255, LIT 206
A survey of world literature emphasizing European Medieval and Renaissance and Enlightenment literature. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL& 256
World Literature III [H] • 5.0 Credits
Formerly ENGL& 256, LIT 207
A survey of world literature emphasizing Romanticism, Realism, and Modernism. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 257
English Grammar [H] • 5.0 Credits
Formerly ENG 255, ENGL 257
An introduction to the terms, concepts (including phonemics, morphology, and syntax), and analytical methods of English grammar. **Prerequisite: Completion of ENGL& 101 with a 0.7 or higher, or concurrent enrollment in ENGL& 101.**

ENGL 264
English Literature I [H] • 5.0 Credits
Formerly ENGL 264, LIT 264
A survey of English literature from Beowulf to 1640. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 265
English Literature II [H] • 5.0 Credits
Formerly ENGL 265, LIT 265
A survey of English literature from 1640 to 1800. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 266
English Literature III [H] • 5.0 Credits
Formerly ENGL 266, LIT 266
A survey of English literature from 1800 to the present. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 275
The Lord of The Rings [H] • 5.0 Credits
Formerly ENGL 275, LIT 275
Students study J.R.R. Tolkien's trilogy and Peter Jackson's films, analyzing their literary, theological, and philosophical elements. Students read the novels in their entirety over the course of the quarter. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 280
Lesbian, Gay, Bisexual, Trans, Queer Studies [H] • 5.0 Credits
Formerly ENGL 280, LIT 280
An introduction to the interdisciplinary field of lesbian/gay/bisexual/transgender/gueer studies from a historical and multicultural perspective. Works of fiction, poetry, drama, nonfiction, and film/television are used to understand connections between sexual orientation, gender identity, and the humanities. **Prerequisite: Eligible for ENGL& 101 or currently enrolled in ENGL 99.**

ENGL 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

ENGL 315
Writing for Health Professionals [C] • 5.0 Credits
This course provides writing instruction for students preparing for careers in the health sciences. Students develop skills needed to research health-related topics and communicate technical information in genres appropriate for diverse audiences, such as health professionals, patients, clients, and the public. **Prerequisite: A grade of 2.0 or better in either ENGL& 101 or ENGL& 102 or ENGL& 235, and acceptance into a BAS/BSN program, completion of a two-year degree, or instructor approval.**

ENGL 410
Professional & Organizational Communication [C] • 5.0 Credits
A study of the skills necessary to communicate effectively in the workplace. Topics include selection of the proper channel and medium for information delivery, business etiquette, and professionalism. Students analyze and prepare correspondence, proposals, and reports. **Prerequisite: Completion of ENGL& 101 with a 0.7 or higher, and acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

English Language Acquisition

ELA 9
ELA Ed Interviewing [RE] • 0.5–3.0 Credits
Formerly ELA 9, ESL 9
The purpose of this course is to improve learner retention, persistence, and performance through research-proven goal-setting, problem-solving, evaluation, intervention, and self-awareness strategies. $25 per quarter BeDA tuition.

ELA 10
ELA Level 1 [RE] • 1.0–18.0 Credits
Formerly ELA 10, ESL 10
For people who have had little or no formal English instruction and who have little or no ability to communicate in English. Emphasis is on basic literacy, fundamental speaking and listening skills, and an introduction to computer use. $25 per quarter BeDA tuition.

ELA 20
ELA Level 2 [RE] • 1.0–18.0 Credits
Formerly ELA 20, ESL 20
For people who have had some formal English language instruction but whose ability to communicate is very limited. Emphasis is on basic survival needs, beginning reading and writing skills, and an increased familiarity with computer skills. $25 per quarter BeDA tuition.

ELA 30
ELA Level 3 [RE] • 1.0–18.0 Credits
Formerly ELA 30, ESL 30
For people who read and write some English and are able to communicate with native speakers with some difficulty. Emphasis is on developing students' reading, writing, communication, and computer skills. $25 per quarter BeDA tuition.

ELA 40
ELA Level 4 [RE] • 1.0–18.0 Credits
Formerly ELA 40, ESL 40
Designed for persons who are fairly literate in English, can handle their jobs using simple oral and written instructions, and can communicate with native speakers with little difficulty. Emphasis is on improving the students' speaking, listening, reading and writing skills, along with use of various computer software. $25 per quarter BeDA tuition.

ELA 50
ELA Level 5 [RE] • 1.0–18.0 Credits
Formerly ELA 50, ESL 50
Designed for persons who are functionally literate in English, can handle their jobs with oral and written instructions, and can communicate with native speakers with little difficulty. Emphasis is on strengthening students' speaking, listening, reading and writing skills, and performing additional computer skills. $25 per quarter BeDA tuition.

ELA 60
ELA Level 6 [RE] • 1.0–18.0 Credits
Formerly ELA 60, ESL 60
Designed for persons who are literate in English, can handle their jobs with oral and written instructions, and can communicate with native speakers. Emphasis is on speaking, listening, reading, and writing skills, with continued use of computers and other technologies. $25 per quarter BeDA tuition.

ELA 90
I-BEST Studies [RE] • 1.0–10.0 Credits
Formerly ELA 90, ESL 90
This course integrates Washington English Language Acquisition level 5 and 6 reading, writing, speaking, and listening standards and indicators with a college-level course. Example: Child Development Associate, Nursing Assistant Certified, or Phlebotomy. $25 per quarter BeDA tuition.

ELA 199
Special Studies [RE] • 1.0–7.0 Credits
Formerly ELA 199, ESL 199
A class used to explore new coursework. $25 per quarter BeDA tuition.

Environmental Science

ENVS& 101
Intro to Environmental Science W/Lab [M/S] • 5.0 Credits
Formerly ENVS 100, ENVS& 101
A multidisciplinary course designed to provide both the non-science and science major the background necessary to understand environmental problems that have arisen due to human activities. Topics include: food chains, energy production, nutrient cycles, forest and wildlife management, population demographics, air and water pollution, ozone depletion, and global warming. Lab and lecture must be taken concurrently. $25 science fee.

ENVS 174
Intro to Meteorology and The Atmosphere [M/S] • 5.0 Credits
An introduction to meteorology, weather, climate, and the atmospheric processes related to air pollution and climate change. Topics include: atmospheric structure, solar radiation, clouds, precipitation, pressure, fronts, hurricanes, air pollution, climate, and global climate change. $25 science fee. **Prerequisite: A grade of 2.0 or better in MATH 70 or 72, or a grade of 0.7 or better in a higher math class (excluding MATH 100, MATH& 107 and MATH& 146), or appropriate placement.**

ENVS 310
Environmental Issues [M/S] • 5.0 Credits
This course provides an interdisciplinary exploration of current environmental challenges through the lens of environmental science, sustainability, and public policy. Students investigate major issues such as climate change, conservation, sustainable business practices, agriculture, energy use, and waste management. Emphasis is placed on scientific inquiry, critical evaluation of environmental problems, and the social, economic, and ethical dimensions of sustainability. $25 science fee. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

Exercise Science

EXSC 101
Introduction to Exercise Science [PE] • 3.0 Credits
Students examine the science of health and human movement with its associated professional sub-disciplines. These include exercise physiology, exercise psychology, physical activity epidemiology, biomechanics, motor development, K-12 physical education, and sports management. Students explore the various professional and educational requirements for occupations in these sub-disciplines. $35 science fee.

EXSC 201
Anatomical Kinesiology [RE] • 5.0 Credits
This course will introduce students to anatomical concepts and physical laws as applied to human movement emphasizing the effects of individual and environmental variables. Includes analyses of normal and pathological gait. $35 science fee. **Prerequisite: Completion of BIOL& 241 with a 0.7 or higher.**

EXSC 202
Personal Training [RE] • 5.0 Credits
Personal Training is a comprehensive course designed to prepare students to become certified Personal Trainers. Students learn to properly screen clients for safe participation in an exercise program, utilize different tools for assessing a clients' fitness level, and identify appropriate assessment techniques for a wide variety of clientele. Students learn components of program design for resistance training, cardiovascular training, and flexibility. $35 science fee.

EXSC 203
Exercise Science Practicum [RE] • 2.0 Credits
Students work in conjunction with Exercise Science instructors to provide individual planning and programming for a variety of populations. Students will also observe professionals in Exercise Science related fields in a variety of settings. $35 science fee. **Prerequisite: Completion of EXSC 202 with a 0.7 or higher, or instructor permission.**

Expanded Functions Dental Auxiliary

EFDA 100
Intro to Expanded Functions Dental Auxiliary [RE] • 2.0 Credits
This course introduces the principles and practices of expanded function dental assisting, including legal and ethical aspects of dental practice, infection control and safety, and oral health promotion and disease prevention. Students will also learn about the supportive services allowed under dentist supervision, such as dental radiography, charting, and basic laboratory procedures. Upon completion of the course, students will be prepared to advance to more advanced coursework in the EFDA program. $400 Dental Lab Supply fee. **Prerequisite: Acceptance into the Expanded Functions Dental Auxiliary Program.**

EFDA 101
Restorative Dentistry [RE] • 3.0 Credits
This course covers the fundamentals of restorative dentistry, including dental anatomy, cariology, restorative classifications, and occlusion. Students will learn the basics of cavity preparation and restoration, and the properties and characteristics of restorative materials, both direct and indirect. The course also covers the principles of occlusion and its influence on dental treatment planning. Upon completion, students will be prepared to apply these concepts to expanded function procedures in subsequent coursework. **Prerequisite: Acceptance into the Expanded Functions Dental Auxiliary Program.**

EFDA 102
Amalgam Restorations [RE] • 2.0 Credits
This course is designed to provide students with a thorough understanding of amalgam as a restorative material, including its composition, physical properties, and clinical applications. Students will learn about the safety considerations related to amalgam handling and placement, as well as proper techniques for amalgam restoration. The course is designed to accompany EFDA 112 and will prepare students for expanded function procedures that involve the use of amalgam. **Prerequisite: Acceptance into the Expanded Functions Dental Auxiliary Program.**

EFDA 104
Composite Restorations [RE] • 2.0 Credits
This course is designed to provide students with the knowledge and skills necessary for working with composite resin and glass ionomers in dental restorations. Topics covered include the composition and physical properties of these materials, proper handling and placement techniques, and patient management. Emphasis is placed on practical, hands-on experience to develop proficiency in composite restoration procedures. **Prerequisite: Successful completion of EFDA 100, EFDA 101, EFDA 102, EFDA 112, and EFDA 123, with a minimum grade of 2.0.**

EFDA 105
Dental Impressions [RE] • 2.0 Credits
This course is designed to provide students with a comprehensive understanding of dental impressions. Topics covered include the fundamentals of preliminary and final impressions, as well as bite registrations. Through a combination of lectures, case studies, and hands-on demonstrations, students will learn about the materials and techniques used to take accurate and reliable impressions, including tray selection and placement, mixtures, and manipulation. By the end of this course, students will have the knowledge and skills needed to prepare for and take high-quality dental impressions. **Prerequisite: Completion of EFDA 100, EFDA 101, EFDA 104, EFDA 114, and EFDA 123 with a minimum grade of 2.0.**

EFDA 112
Amalgam Restorations Lab [RE] • 3.0 Credits
This laboratory course is designed to accompany EFDA 102 and provides students with hands-on experience in the safe placement, handling, and manipulation of amalgam restorative materials. Students will learn to apply the principles of amalgam restoration and to perform clinical procedures under the supervision of a licensed dentist or dental hygienist. Upon completion of the course, students will be prepared to perform expanded function procedures that involve the use of amalgam restorative materials. **Prerequisite: Acceptance into the Expanded Functions Dental Auxiliary Program.**

EFDA 114
Composite Restorations Lab [RE] • 3.0 Credits
This hands-on laboratory course is designed to build on the knowledge and skills gained in EFDA 104, providing students with the opportunity to apply safe placement, handling, and manipulation techniques to complete composite restorations. Working under the supervision of experienced dental professionals, students will practice composite restoration procedures on a variety of dental models and patient simulations. By the end of this course, students will have developed the proficiency and confidence needed to provide high-quality composite restorations in a clinical setting. **Prerequisite: Successful completion of EFDA 100, EFDA 101, EFDA 102, EFDA 112, and EFDA 123, with a minimum grade of 2.0.**

EFDA 115
Dental Impressions Lab [RE] • 2.0 Credits
This hands-on laboratory course builds on the theoretical knowledge gained in EFDA 105, providing students with the opportunity to practice taking accurate and reliable dental impressions. Working under the supervision of experienced dental professionals, students will learn to apply the materials and techniques covered in EFDA 105 to take preliminary and final impressions, as well as bite registrations. Through a combination of patient simulations and dental models, students will develop the proficiency and confidence needed to provide high-quality dental impressions in a clinical setting. **Prerequisite: Completion of EFDA 100, EFDA 101, EFDA 104, EFDA 114, and EFDA 123 with a minimum grade of 2.0.**

EFDA 123
EFDA Clinical Practice I [RE] • 3.0 Credits
This course provides students with hands-on clinical experience in the dental clinic setting. Under the supervision of licensed dentists, students will perform assigned expanded function duties, applying industry best practices and patient safety standards. The course is designed to help students build their skills in a real-world setting, and to prepare them for the practical demands of the expanded functions dental auxiliary role. **Prerequisite: Acceptance into the Expanded Functions Dental Auxiliary Program.**

EFDA 126
EFDA Clinical Practice II [RE] • 4.0 Credits
This course is designed to provide students with hands-on, chair-side clinical experience in a dental clinic setting. Working under the supervision of licensed dentists, students will perform a variety of expanded functions dental auxiliary duties, including but not limited to restorative procedures and preventive services. Students will be expected to apply their knowledge of patient safety standards and industry best practices, while developing the skills and confidence needed to succeed as a professional dental auxiliary. EFDA 126 is the second in a two-part series of clinical practice courses, following EFDA 123. Together, these courses form a comprehensive clinical experience for the expanded functions dental

auxiliary. **Prerequisite: Completion of EFDA 100, EFDA 101, EFDA 104, EFDA 114, and EFDA 123 with a minimum grade of 2.0.**

Fire Science

FS 100
Introduction to Fire Service [RE] • 1.0 Credit
This course is designed to give students a broad understanding of the fire service in the United States. The course focuses on history, organization, and the primary components that make up the various forms of fire protection services in America today. This course is required for those students having no previous exposure to the fire service such as Tri-Tech Fire Science courses or IFSAC FF I certification.

FS 111
Fire Administration [RE] • 3.0 Credits
Management in the fire service explores the skills and techniques used by competent management in business, government, and voluntary organizations, with particular emphasis on their application to the fire service. **Prerequisite: Completion of FS 100, FS 121, FS 131, FS 141, FS 151, FS 211, FS 231, FS 241, and FS 251, all with a 1.0 or better.**

FS 121
Fire Tactics [RE] • 3.0 Credits
Discussion of basic firefighting tactics of company response, including size-up rescue, exposure, ventilation and fire problems, and tactics used.

FS 131
Introduction to Fire Inspections [RE] • 3.0 Credits
A course designed to give the new inspector or firefighter a basic concept of inspections that deal with fire hazards, authority to inspect, and how to conduct a pre-fire plan.

FS 141
Chemistry of Hazardous Materials [RE] • 3.0 Credits
This course is a survey of hazardous materials, their physical properties, chemical properties, and how they relate to emergency first responders who are called to manage events related to the release of hazardous materials. This course is intended for individuals who are majoring in Fire Science or who are enrolled in the Washington State Firefighter Apprenticeship program.

FS 151
Hazardous Materials for First Responders [RE] • 3.0 Credits
This course is a survey of hazardous materials, their physical properties, chemical properties, and how they relate to emergency first responders who are called to manage events related to the release of hazardous materials. This course in intended for individuals who are majoring in Fire Science or who are enrolled in the Washington State Firefighter Apprenticeship program.

FS 193
Fire Science Independent Studies [RE] • 4.0 Credits
A class used to explore new coursework or for a specific topic of special interest. Grade is pass/no credit.

FS 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

FS 211
Building Construction [RE] • 3.0 Credits
This course is designed to give the firefighter an understanding of the basics of building construction as it pertains to the fire service. This class is designed to prepare the student for assessing construction types and weaknesses for structural firefighting.

FS 222
Fire Tactics II [RE] • 3.0 Credits
This course includes planning, implementing, and evaluating basic and advanced fire tactics at the command officer level. **Prerequisite: Completion of FS 121 with a 0.7 or higher.**

FS 231
Fire Protection Equipment [RE] • 3.0 Credits
This course is designed to give students a clear understanding of the principles and limitations of fire suppression and detection systems, and their role in fire department emergency operations.

FS 241
Fire Investigation [RE] • 3.0 Credits
This course includes methods of determining the area of fire origin, fire causes, fire spread, and the aspects of fire behavior; recognizing accidental and incendiary fires and securing and preserving evidence. Witness interrogation methods, arson laws, court procedures, and review of case histories are discussed.

FS 251
Fire Service Hydraulics [RE] • 3.0 Credits
This course is designed to give the firefighter an understanding of municipal water systems, principles of fluids, water in motion, formulas for calculating water flow and pressure, fire flow requirements, and basic fire stream calculations. This course prepares students, in part, for fire apparatus pump operations.

FS 293
Fire Science Independent Studies [RE] • 1.0–10.0 Credits
A class used to explore new coursework or for a specific topic of special interest. Grade is pass/no credit.

FS 299
Special Studies [RE] • 1.0–10.0 Credits
A class used to explore new coursework.

First Year Introduction

FYI 101
First Year Introduction [RE] • 1.0 Credit
FYI is an introduction to academic culture and student success strategies, as well as expectations, resources, procedures, and policies of CBC. FYI supports students in their transition to college. FYI is required for all degree- and certificate-seeking students in the first quarter of classes. $100 FYI fee; not applicable to Running Start. Grade is pass/no credit.

French

FRCH& 121
French I [H] • 5.0 Credits
Formerly FR 101, FRCH& 121
Introduction to the French language including conversational skills, reading, writing and grammar, and French culture including geography,

customs, daily life, and heritage. Designed for the novice learner of French, with little or no proficiency in the French language. It is recommended that students complete at least ENGL 99 prior to enrollment.

FRCH& 122
French II [H] • 5.0 Credits
Formerly FR 102, FRCH& 122
Introduction to the French language including conversational skills, reading, writing and grammar, and French culture including geography, customs, daily life, and heritage. **Prerequisite: Completion of FRCH& 121 with a 0.7 or higher, or instructor permission.**

FRCH& 123
French III [H] • 5.0 Credits
Formerly FR 103, FRCH& 123
Introduction to the French language including conversational skills, reading, writing and grammar, and French culture including geography, customs, daily life, and heritage. **Prerequisite: Completion of FRCH& 122 with a 0.7 or better, or instructor permission.**

FRCH 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

FRCH 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

General Engineering

ENGR& 111
Engineering Graphics 1 • 3.0 Credits
Formerly ENGR& 111, GE 101
Principles of mechanical drawing: geometric construction, orthographic projection, sectional views, auxiliary views, isometric and oblique drawings, dimensions, threads, fasteners, and lettering. $25 science fee.

ENGR 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

ENGR& 214
Statics • 5.0 Credits
Formerly ENGR& 214, GE 281
Analysis of force systems in static equilibrium. Topics include: force vectors, equilibrium of particles and rigid bodies, structural analysis, distributed forces, friction, center of gravity, moments of inertia. $25 science fee. **Prerequisite: A grade of 2.0 or better in MATH& 151 or a grade of 0.7 or better in a higher math class, and either PHYS& 241/231 or PHYS& 221 with a grade of 2.0 or better.**

ENGR& 215
Dynamics • 5.0 Credits
Formerly ENGR& 215, GE 291
Analysis of motion of particles and rigid bodies. Topics include: kinematics of particles and rigid bodies, kinetics of particles and rigid bodies, Newton's laws, work and energy, impulse, and momentum. $25 science fee. **Prerequisite: Completion of ENGR& 214 with a 2.0 or better.**

ENGR& 224
Fundamentals of Thermodynamics [RE] • 5.0 Credits
A calculus-based engineering class concerning heat and heat transfer. This course covers the thermodynamic properties of matter, ideal and real gases, work and heat, and the laws of thermodynamics and their applications. $25 science fee. **Prerequisite: Completion of PHYS& 223 with a 2.0 or higher.**

ENGR& 225
Mechanics of Materials [RE] • 5.0 Credits
A calculus-based engineering class concerning the mechanics of deformable bodies. This course covers the concepts of stress, strain, axial loads, torsion and bending, properties of materials and combined stress. $25 science fee. **Prerequisite: Completion of ENGR& 214 with a 2.0 or higher.**

ENGR 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

Geography

GEO 101
Physical Geography [M/S] • 5.0 Credits
Physical Geography provides an introduction to the physical earth. It may include processes, which impact the earth; it may also include the relationship between humans and the earth. Study of the physical areas and environment of the earth. Topics include the weather, climate, water cycle, soils, and land form studies. The class also covers how humans influence and are influenced by their physical environment. $25 science fee.

GEO 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

GEO 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

Geology

GEOL& 101
Intro to Physical Geology W/ Lab [M/S] • 5.0 Credits
Formerly GEL 101, GEOL& 101
Composition and structure of the earth. Study and identification of common minerals and the three major rock groups. Plate tectonics concept of the evolution of surface features of continents. A study of volcanic, seismic, weathering, and groundwater processes. Outline of geologic development of the Pacific Northwest, including field studies. Lecture and lab must be taken concurrently. $25 science fee. **Prerequisite: A grade of 2.0 or better in either MATH 40 or ABE 52, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

GEOL& 103
Historical Geology W/ Lab [M/S] • 5.0 Credits
Formerly GEL 203, GEOL& 103
Assessment of the history and development of the earth's physical environment and its inhabitants. An historical and chronologic analysis of the origin of the earth, including the development of the earth through

time and discussion based on the paleontologic, sedimentologic, and stratigraphic record. Study of distinctive fossil groups for each geologic period and applications for correlation and reconstruction of regional geologic history. Lecture and lab must be taken concurrently. $25 science fee. **Prerequisite: Completion of GEOL& 101 with a 0.7 or better, or instructor permission.**

GEOL& 110
Environmental Geology W/ Lab [M/S] • 5.0 Credits
Formerly GEL 211, GEOL& 110
Relationships of human activities with earth materials and processes. Earthquakes, volcanic activity, mass wasting, subsidence, surface water, mineral resources, waste disposal, water pollution, and a heavy emphasis on groundwater may all be included. Students are expected to make interpretations and draw conclusions from scientific data such as graphs, charts, and maps. Lecture and lab must be taken concurrently. Field trips may be included as a part of the laboratory experience. $25 science fee. **Prerequisite: Completion of GEOL& 101 with a 0.7 or better, or instructor permission.**

GEOL 115
Geology of The National Parks • 5.0 Credits
The U. S. national parks and wilderness monuments preserve spectacular natural wonders. Their beauty is a direct result of their underlying geology. In this course, we explore the processes and forces by which the park lands were formed and transformed over geologic time, and their current geologic significance. This includes volcanism, plate tectonics, mountain-building, and alpine glaciations. $25 science fee.

GEOL 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

GEOL 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

Health Education

HE 110
Concepts of Fitness [PE] • 2.0 Credits
Physiological, kinesiological, and energy aspects of movement activities and exercises related to health and physical fitness. The course is lecture/lab.

HE 160
Diet, Exercise & Weight Control [PE] • 2.0 Credits
Class is designed to promote and achieve knowledge in the areas of diet, exercise, and weight management for today's lifestyles as it relates to the students' total well-being.

HE 161
HIV/AIDS Issues and Strategies [PE] • 2.0 Credits
A comprehensive overview of the virus HIV and AIDS, including: biological, epidemiological, historical, universal precautions, economic, legal, ethical, social, and behavioral aspects.

HE 162
HIV/AIDS Education [PE] • 1.0 Credit
Formerly HE 162
This lab is designed to provide additional information on HIV/AIDS and activities that prepare students to give presentations about health issues related to HIV/AIDS to classes and other student groups on campus.

HE 170
Health and Wellness [PE] • 3.0 Credits
Study of current health and wellness issues and problems of the college-age student. Emphasis is on lifestyles, risk factors, and preventing disease and illness with a wellness lifestyle.

HE 171
Exercise Prescription [PE] • 2.0 Credits
This course is the study of the history, current trends, and research regarding proper protocols for designing individual workout programs based on needs and experience of individuals.

HE 172
Exercise Prescription Lab [PE] • 1.0 Credit
Formerly HE 172
Lab to be taken concurrently with HE 171.

HE 199
Special Studies • 1.0–15.0 Credits
An experimental class to be used to explore new approaches and applications to Health Education.

HE 210
Sports Nutrition [PE] • 3.0 Credits
This course is an introduction to terms, concepts, and research regarding proper nutrition for athletes and active individuals. In addition, supplementation and aids to enhance performance are studied.

HE 215
Health and Fitness for Life [PE] • 3.0 Credits
This course is designed to provide students with the necessary knowledge and skills to maintain a healthy fitness level throughout the lifespan. Students will develop, implement, and modify an exercise program geared to their specific fitness and wellness goals. This class requires students to exercise in the fitness center. $35 science fee.

HE 220
Drugs and Health [PE] • 3.0 Credits
This course is designed to achieve physiological knowledge and awareness of chemical use and abuse as it relates to the student's total well-being.

HE 230
First-Aid Safety [RE] • 3.0 Credits
Designed to help students learn first-aid skills and accident prevention. Advanced first-aid and CPR card given for successful completion.

HE 232
Sports Psychology [PE] • 3.0 Credits
An introduction to terms, concepts, and research regarding the psychological area of sports. The history, current trends, and legal issues regarding the field of sports psychology are studied.

HE 240
Stress Management [PE] • 3.0 Credits
A study of the causes of human stress and how to manage or minimize this stress. Theories, implications, and practical applications are emphasized.

HE 250
Sports Management [PE] • 3.0 Credits
This course is an introduction to the history, current global perspectives, trends, and research regarding the field of sports management. Students gain an understanding of marketing, organization, and financial aspects of sports management.

Health Physics

HPHYS 300
Radiation Physics I • 5.0 Credits
This course is intended to teach students the basic fundamentals of health physics beginning with a review of physical principles, atomic and nuclear structure, radiation sources, radioactive decay series and differential equations, and the physical theory of interaction of radiation with matter. Students will develop skills by learning how to use available resources such as Brookhaven National Laboratory National Nuclear Data Center, Oak Ridge National Laboratory Radiological Toolbox and national Health Physics Society membership resources. **Prerequisite: Acceptance into the Health Physics BAS program at CBC.**

HPHYS 305
Radiation Physics II • 5.0 Credits
This course is intended to teach students advanced fundamentals of health physics beginning with radiation exposure, dosimetric quantities, radiation biology, standards and guidance relating to radiation safety, radiation detector theory and measurement counting statistics. Students will develop skills by learning how to use available resources, such as Brookhaven National Laboratory's National Nuclear Data Center, Oak Ridge National Laboratory's Radiological Toolbox and national Health Physics Society membership resources. **Prerequisite: Completion of HPHYS 300 with a 2.5 or higher, or instructor permission.**

HPHYS 310
Nuclear Forensics • 5.0 Credits
This course explores the chemical, physical and nuclear aspects associated with nuclear material production and identification. Topics will include nuclear fuel cycle, analysis of recovered material, nuclear policy and nuclear forensic case histories. **Prerequisite: Acceptance into the Health Physics BAS program at CBC.**

HPHYS 315
Radiological and Nuclear Emergency Response • 5.0 Credits
This course is intended to teach students the national framework for responding to incidents involving radiological and nuclear materials and the role of historical impacts on shaping policy and accident analysis. A description of the National Contingency Plan and how it envelopes the EPA, investigative units, medical management of patients, response and recovery, societal issues, and factors affecting decision making. **Prerequisite: Completion of HPHYS 300 with a 2.5 or higher, or instructor permission.**

HPHYS 320
Environmental Radioactivity • 5.0 Credits
This course is intended to teach students the sources of natural and technologically enhanced radioactivity in the environment. Basic environmental transport methods and software will be explored and applied to determine dose to a worker and a member of the public based on a composite of real-world situations, in a hypothetical setting, that have historically occurred in the health physics industry. **Prerequisite: Completion of HPHYS 300 with a 2.5 or higher, or instructor permission.**

HPHYS 325
Reactor Health Physics • 5.0 Credits
This course is intended to teach students about the health physics challenges of nuclear power reactors, research reactors, and proposed future reactors (small modular reactors, microreactors, fusion reactors). The course will include a discussion on historic reactor and critical assembly accidents. **Prerequisite: Completion of HPHYS 305 with a 2.5 or higher, or instructor permission.**

HPHYS 350
Health Physics Seminar • 2.0 Credits
This course is intended to cover a broad spectrum of topics in contemporary health physics (e.g., state and federal regulations, waste disposal, emergency response, dosimetry, IAEA activities, nuclear nonproliferation, radiation oncology, etc.) delivered by field experts. Additionally, the students will increase their knowledge of employment opportunities and learn basic skills, such as resume writing and interview techniques. **Prerequisite: Acceptance into the Health Physics BAS program at CBC.**

HPHYS 397
Special Studies Lecture • 1.0–5.0 Credits
A class used to explore new coursework or for a specific topic of interest. **Prerequisite: Acceptance into the Health Physics BAS program at CBC and instructor permission.**

HPHYS 398
Special Studies Lab • 1.0–5.0 Credits
A class used to explore new coursework for a specific topic of interest. **Prerequisite: Acceptance into the Health Physics BAS program at CBC and instructor permission.**

HPHYS 399
Special Studies Field Based Experience • 1.0–5.0 Credits
A class used to explore new coursework or for a specific topic of special interest. **Prerequisite: Acceptance into the Health Physics BAS program at CBC and instructor permission.**

HPHYS 400
External Dosimetry • 5.0 Credits
This course is intended to teach students external radiation protection, point kernel techniques, shielding calculations including National Council on Radiation Protection and Measures (NCRP) 147, and external dosimetry measurement techniques. Students will develop skills by learning how to use industry shielding software and available resources, such as Oak Ridge National Laboratory's Radiological Toolbox. **Prerequisite: Completion of HPHYS 305 with a 2.5 or higher, or instructor permission.**

HPHYS 405
Internal Dosimetry • 5.0 Credits
This course is intended to teach students internal radiation protection based on international recommendations that include International Commission on Radiological Protection (ICRP), National Council on Radiation Protection and Measurements (NCRP) and journal publications. Furthermore, the course will include discussion and applications of Medical Internal Radiation Dose (MIRD) methods for calculating internal dose. Students will develop skills by learning how to use industry dosimetry software, such as Integrated Modules for Bioassay Analysis (IMBA) and Oak Ridge National Laboratory's Radiological Toolbox. **Prerequisite: Completion of HPHYS 305 with a 2.5 or higher, or instructor permission.**

HPHYS 410
Radiation Biology • 5.0 Credits
This course is intended to teach students molecular mechanisms of radiation interaction, cell survival curves, cellular radiosensitivity, dose fractionation, acute radiation syndrome, medical countermeasures, radiation carcinogenesis, teratogenesis, and radiation protection. Students will develop skills by learning how to use applicable sections of the Oak Ridge National Laboratory's Radiological Toolbox. **Prerequisite: Completion of HPHYS 305 with a 2.5 or higher, or instructor permission.**

HPHYS 415
Radiation Detection and Measurement & Lab • 5.0 Credits
This course is intended to teach students the basic physics principles and applications of radiation detecting instruments, with laboratory exercises. The course emphasizes techniques and instrumentation for nuclear radiation detection and measurements as they relate to health physics (radiation safety) and nuclear physics. Laboratory exercises implement classroom knowledge through experience with various counting systems. **Prerequisite: Completion of HPHYS 305 with a 2.5 or higher, or instructor permission.**

HPHYS 420
Medical Health Physics • 5.0 Credits
This course is intended to provide students an introduction to the field of Medical Health Physics. Topics in this course will include the diagnostic and therapeutic use of x-rays and nuclear medicine, radiation protection and regulation, radiation accidents, waste management and disposal. **Prerequisite: Acceptance into the Health Physics BAS program at CBC.**

HPHYS 425
Nuclear and Radiological Regulatory Framework • 5.0 Credits
This course is intended to teach students the formation of the nuclear and regulatory environment in the United States and the role of Independent Domestic and International Consensus Standards. **Prerequisite: Acceptance into the Health Physics BAS program at CBC.**

HPHYS 430
CHP Exam Preparation and Problem Solving • 5.0 Credits
This course is intended to prepare students to take the nationally recognized Certified Health Physicist (CHP) exam with an emphasis on problem-solving skills. This course reviews all general areas of health physics and is recommended for students who are completing the Health Physics BAS program. This course reviews the fundamentals of health physics beginning with radiation physics, environmental radioactivity, internal dosimetry, external dosimetry, instrumentation, regulations, counting statistics, and nonionizing radiation. Students will develop skills in problem-solving techniques and techniques applicable to the industry. **Prerequisite: Completion of HPHYS 305 with a 2.5 or higher, or instructor permission.**

HPHYS 450
Health Physics Seminar II • 1.0 Credit
This second seminar in the series is intended to expand knowledge spectrum of topics in contemporary health physics, delivered by field experts, and explore local employment opportunities. **Prerequisite: Acceptance into the Health Physics BAS program at CBC.**

Health Sciences

HSCI 101
Introduction to Healthcare [RE] • 5.0 Credits
This course introduces students in the School of Health Sciences pathway to the healthcare profession and various careers in medicine, nursing, and allied health. Topics include historical and modern contexts of healthcare, healthcare occupations, ethical considerations for healthcare professionals, and an information related to the various health sciences programs offered at Columbia Basin College.

HSCI 102
Medical Office Specialist I [RE] • 5.0 Credits
This course emphasizes effective written, verbal, and non-verbal communication, ensuring optimal patient interactions. Students will learn about patient education, the nuances of medical law and ethics, and the foundational aspects of medical records, including an introduction to electronic medical records. Additional topics include administrative tasks such as appointment scheduling, coordinating outpatient procedures, managing patient referrals, and effectively utilizing electronic medical records in a modern healthcare context. **Prerequisite: Students must be accepted into CBC's Medical Office Specialist program prior to enrolling.**

HSCI 103
Medical Office Specialist II [RE] • 4.0 Credits
Building on foundational knowledge of the medical office environment, this course delves deeper into the intricacies of medical office operations. Students will explore the basics of medical coding and billing, gaining insight into the reimbursement process. In tandem, the course introduces essential computer skills and familiarizes students with the Microsoft Office Suite, emphasizing practical applications in a medical office setting. To ensure a holistic approach to career preparedness, students are also equipped with job-seeking strategies tailored to healthcare administration. **Prerequisite: Completion of MA 140 with a 2.0 or better, or concurrent enrollment in HSCI 102, and acceptance into CBC's Medical Office Specialist program.**

HSCI 122
Medical Office Specialist Clinical [RE] • 5.0 Credits
Formerly HSCI 122, MRHI 195
An immersive clinical experience, HSCI 122 offers students a hands-on opportunity to apply their academic knowledge within real-world medical office settings. With 165 contact hours, students will engage directly with healthcare professionals and patients, gaining invaluable insights and skills in day-to-day operations, patient interactions, and administrative responsibilities. Whether in a medical office or a related healthcare facility, this clinical placement ensures students are well-prepared for their roles as medical office specialists, merging theory with practice. **Prerequisite: Completion of MA 140 or HSCI 102 with a minimum grade of 2.0 and acceptance into CBC's Medical Office Specialist program.**

HSCI 147
Medical Terminology [RE] • 5.0 Credits
Formerly AOT 147, HIT 147, HSCI 147
Provides a basic background of medical terminology for the medical office. Major topics to be studied are: cells and oncology, tissues and the integumentary system, skeletal system, muscular system, nervous system, special senses, glands, cardiovascular system; blood and lymphatic-immune systems, respiratory system; digestive system; urinary system, reproductive system, pregnancy and human development; general diseases, lab tests, diagnoses, surgery, pharmacology, and therapy.

Emphasis is placed on identifying and labeling word parts, defining and building medical terms, basic anatomy, and becoming familiar with common diseases of the systems.

HSCI 199
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

HSCI 201
Foundations of Addiction & Substance Use Disorders [RE] • 5.0 Credits
This course provides an in-depth exploration of addiction, encompassing its biological, psychological, and social components. Students will delve into the pharmacological effects of various substances, understanding their impact on the brain and behavior. The course also covers theories of addiction, examining how different disciplines approach the concept of addiction, and the various factors that contribute to substance use disorders

HSCI 202
Treatment Methods and Counseling Techniques [RE] • 5.0 Credits
This course focuses on the diverse treatment methodologies and effective counseling strategies for individuals with substance use disorders. Emphasis is placed on developing practical counseling skills, both for individual and group settings. Students will explore evidence-based treatment methods, learn to tailor interventions to client needs, and gain insights into the dynamics of the therapeutic relationship in addiction treatment.

HSCI 203
Cultural Competence in Substance Use Disorder Counseling [RE] • 5.0 Credits
Addressing the vital role of cultural competence in substance use disorder counseling, this course explores the impact of cultural diversity in treatment settings. Students will learn about effective strategies for working with diverse populations, including an understanding of HIV/AIDS interventions. The course emphasizes the importance of culturally responsive care and the development of skills to work effectively across various cultural contexts.

HSCI 204
Clinical Skills for Substance Use Disorders [RE] • 5.0 Credits
This course is designed to equip students with essential clinical skills for effective substance use disorder evaluation and treatment. Topics include comprehensive service coordination, advanced clinical documentation techniques, and application of various screening and assessment tools. Students will learn to formulate detailed treatment plans and develop competency in managing complex cases in substance use disorder counseling.

HSCI 205
Professional Ethics and Law in Substance Use Disorder Counseling [RE] • 5.0 Credits
Focusing on the ethical and legal frameworks governing substance use disorder counseling, this course covers the principles of confidentiality, professional responsibilities, and regulatory compliance. Students will engage with case studies to understand the application of ethical codes and legal requirements, preparing them to navigate the complexities of professional practice in this field.

HSCI 206
Psychopathology and Relapse Prevention [RE] • 5.0 Credits
This course covers the intersection of psychopathology with substance use disorders, focusing on common co-occurring mental health conditions and strategies for relapse prevention. Students will learn to apply psychological theories to addiction, design interventions for co-occurring disorders, and develop comprehensive relapse prevention plans tailored to individual needs.

HSCI 207
Case Management and Community Education [RE] • 5.0 Credits
This course offers insights into effective case management practices and the design of community education programs focused on substance use disorders. Students will explore approaches to adolescent-specific treatment needs and coordinate with community resources for comprehensive care. The course emphasizes the development of skills for effective intervention and education strategies to support individuals and communities affected by substance use disorders.

HSCI 293
Current Topics • 1.0–15.0 Credits
This course is an elective credit for on-the-job firefighting training and experience.

HSCI 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

HSCI 301
Foundations of Public Health • 5.0 Credits
This course presents foundational knowledge of public health, including historical contributions, ethical and moral concepts, organizational structure, and societal, environmental, and behavioral factors that impact health and community health outcomes. **Prerequisite: Acceptance into the Bachelor of Applied Science in Community Health Program.**

HSCI 302
Epidemiology • 5.0 Credits
This course explores basic concepts of epidemiology within multiple dimensions of healthcare. Topics include population health, disease and prevention, distributions of diseases, and evaluation of public health data. **Prerequisite: Acceptance into the Bachelor of Applied Science in Community Health Program and completion of MATH& 146 with a minimum grade of 2.0.**

HSCI 303
Healthcare Leadership • 5.0 Credits
This course examines the leadership characteristics and competencies required to plan and implement effective community health programs and systems that meet the needs of diverse populations of patients, individuals, and stakeholders. **Prerequisite: Acceptance into the Bachelor of Applied Science in Community Health Program.**

HSCI 304
Health Policy • 5.0 Credits
This course explores health policy and the impact of government on healthcare delivery and access. **Prerequisite: Acceptance into the Bachelor of Applied Science in Community Health Program.**

HSCI 401
Behavioral & Cultural Issues in Public Health • 5.0 Credits
This course helps students understand and respond to health discrepancies and issues of health access that persist among vulnerable populations. Students will explore cultural and behavioral factors that influence the management and delivery of community health services. **Prerequisite: Acceptance into the Bachelor of Applied Science in Community Health Program.**

HSCI 402

Public Health Education • 5.0 Credits

This course prepares students to promote health and prevent disease among members of the community through educational efforts and programs that respond to factors influencing the multi-dimensional aspects of health. **Prerequisite: Acceptance into the Bachelor of Applied Science in Community Health Program.**

HSCI 403

Health Systems & Healthcare Delivery • 5.0 Credits

This course explores the various organizations and patient care settings in which health services are delivered and analyzes related purposes, general function, delivery methods, and legal/ethical issues. **Prerequisite: Acceptance into the Bachelor of Applied Science in Community Health Program.**

HSCI 409

Community Health Capstone • 5.0 Credits

In this course, students will demonstrate their cumulative knowledge in the community health field by designing and implementing a project with a focus on high-level inquiry. **Prerequisite: Acceptance into the Bachelor of Applied Science in Community Health Program and instructor permission.**

Healthcare Administration

HCAD 303

Human Resources and Organizational Culture in Healthcare • 5.0 Credits

Formerly AMGT 303, AMGT 420, HCAD 303, HCAD 420

This course examines the evolving role of human resource management and its increasing importance as a driver of organizational performance. Students learn about the broad responsibilities of human resource departments, from ensuring compliance with government regulations and handling compensation & benefits, to managing diversity and organizational culture. The importance of learning the business, resisting isolation, effectively communicating reasons for change, and ensuring alignment with the organization's strategic objectives is explored. Students are also introduced to the growing role of data analysis in HR decision-making. This course is cross-listed with AMGT 303. Students completing HCAD 303 may not receive graduation credit for AMGT 303. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of BUS& 101 with a 2.0 or better, and acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

HCAD 401

Legal Issues and Ethics in Healthcare Administration • 5.0 Credits

Formerly AMGT 330, AMGT 401, HCAD 330, HCAD 401

This course explores the state and federal laws and regulations that affect management behavior and organizational practices in various organizational settings. Material covered includes torts and crimes, traditional and sales and lease contracts, business organizations, employment law, products liability, labor relations, and professional liability. The course will pay special attention to issues surrounding ethics and intellectual property. This course is cross-listed with AMGT 401. Students completing HCAD 401 may not receive graduation credit for AMGT 401. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of AMGT 306, BUS& 101, CS 101, ENGL 410 or ENGL 315, and CMST 415, all with a 2.0 or better. Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

HCAD 402

Healthcare Information & Data Analytics • 5.0 Credits

Formerly AG 340, AG 402, AMGT 340, AMGT 402, HCAD 315, HCAD 402, NRS 315

This course focuses on the information resource of management and introduces the fundamental concepts of data analytics. The course focuses on data analytic methods in framing and answering strategic questions facing decision makers in a variety of business sectors. The course will introduce theories and methods for analysis and communication of various kinds and types of data. This course will introduce various analytical techniques that are practical and feasible while being relevant and ethically and legally viable. The course promotes proficiency with technology and its essential managerial applications. This course is cross-listed with AG 402, AMGT 402, and NRS 315. Students completing HCAD 402 may not receive graduation credit for AG 402, AMGT 402, or NRS 315. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of AMGT 306, BUS& 101, CS 101, ENGL 410 or ENGL 315, and CMST 415, all with a 2.0 or better. Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

HCAD 404

Healthcare Operations Management & Evaluation • 5.0 Credits

Formerly AG 310, AG 404, AMGT 310, AMGT 404, HCAD 310, HCAD 404

This course focuses on the operations level of management within an organization or enterprise. The course highlights the importance of the ongoing daily nature of organizational functionality through areas including capacity planning, inventory management, quality control, and supply chain management. Students are tasked with collaboratively examining an assigned company's operations within their preferred academic and career interests in an empowered student-led process resulting in a comprehensive presentation of information. This course is cross-listed with AG 404 and AMGT 404. Students completing HCAD 404 may not receive graduation credit for AG 404 or AMGT 404. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of AMGT 300, AMGT 306, BUS& 101, CS 101, ENGL 410 or ENGL 315, and CMST 415, all with a 2.0 or better. Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

HCAD 480

Healthcare Administration Capstone • 10.0 Credits

Formerly AG 480, AMGT 480, HCAD 480

This course provides the opportunity for students to demonstrate that they have learned the material and concepts from the program and can apply it in the real world. It provides students the opportunity to do a comprehensive analysis of an on-going business or organization and develop a long range, strategic plan including implementation and recommendations for change or to explore the development of a new entrepreneurial venture and measure its feasibility in a comprehensive manner. This course is cross-listed with AG 480 and AMGT 480. Students completing HCAD 480 may not receive graduation credit for AG 480 or AMGT 480. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Completion of/concurrent enrollment in AMGT 300, AMGT 301, AMGT 302, AMGT or HCAD 303, AMGT or AG 304, AMGT 306, AMGT 401 or HCAD 401, AMGT 402 or AG 402 or HCAD 402, and AMGT 404 or AG 404 or HCAD 404, all with a 2.0 or better.**

History

HIST 107
Chicano History [S/B] • 5.0 Credits
Formerly HIS 107, HIST 107
This course is an introduction to the history of peoples of Mexican origin in the United States beginning with the period before the arrival of the Europeans and ending with an examination of contemporary issues such as immigration, acculturation/assimilation, and political representation facing the Chicano community during the contemporary period.

HIST 108
History of Immigration In The U.S. [S/B] • 5.0 Credits
Formerly HIS 108, HIST 108
This course provides an overview of the history of immigration (voluntary and involuntary) in the United States and examines the factors that led people from Europe, Asia, Africa, Latin America, and other parts of the world to migrate to the U.S. The course also examines and compares the experience of the various groups once they are in the United States.

HIST 110
History of Modern East Asia [S/B] • 5.0 Credits
Formerly HIS 110, HIST 110
A history of East Asia. Major emphasis is on the history of China, an analysis of modernization in Japan, and issues of colonialism and nationalism in East Asia.

HIST 111
Colonial Latin America [S/B] • 5.0 Credits
The primary objective of the course is to familiarize students with the major phases in colonial Latin American history, including the conquest of the indigenous people, the imposition of Catholicism, the insertion of Latin America into the world market, the introduction and development of African slavery, independence movements, and the creation of new societies resulting from the mixing of indigenous, Iberian, and African cultures.

HIST 112
Modern Latin America [S/B] • 5.0 Credits
Formerly HIS 112, HIST 112
A survey of the political, social, and economic history of Latin America from the last decades of the nineteenth century to the present.

HIST 113
Mexico Since Independence [S/B] • 5.0 Credits
This course provides students with an overview of the history of modern Mexico from the first movements towards independence at the beginning of the 19th century to the economic, political, and cultural struggles which the nation faces at the start of the 21st century.

HIST 115
Intro to Middle East History & Society [S/B] • 5.0 Credits
Formerly HIS 115, HIST 115, SOC 115
This course will introduce students to the sociology and history of the Middle East as one of the most diverse regions in the world. Specifically, it examines the historical development as well as the current transformation of social, cultural, economic, and political systems of Middle Eastern societies. Topics will be examined using a macro-sociological approach which analyzes both their internal dynamics and their role and place in the world. **Prerequisite: This course is cross-listed with SOC 115. Students completing HIST 115 may not receive graduation credit for SOC 115.**

HIST& 126
World Civilizations I [H] • 5.0 Credits
Formerly HIS 101, HIST& 126
A study of world civilizations from their origins through late antiquity. Emphasis is placed upon Western, East Asian, and South Asian civilizations. Philosophies, religions, and political and social systems are covered.

HIST& 127
World Civilizations II [H] • 5.0 Credits
Formerly HIS 102, HIST& 127
The development of world civilizations from the end of the classical age to the beginning of the modern. Political, social, economic, and cultural development are covered with emphasis upon Europe, Asia, and Africa.

HIST& 128
World Civilizations III [H] • 5.0 Credits
Formerly HIS 103, HIST& 128
An examination of the major civilizations of the world from the birth of the modern age to the present. Emphasis is on the development of the modern nation-state, international relations, socio-economic developments, and shifting patterns of thought.

HIST& 146
U.S. History I [S/B] • 5.0 Credits
Formerly HIS 104, HIST& 136, HIST& 146
Survey of United States history from the colonial period through the 1820s. Examines the U.S. in its formative period, including Native American societies, colonial development, the foundations of American society and culture, the American Revolution, the framing of the Constitution, and the growth and development of the young nation.

HIST& 147
U.S. History II [S/B] • 5.0 Credits
Formerly HIS 105, HIST& 137, HIST& 147
Survey of United States history from the Jacksonian era through World War I. Examines changes shaping American society in the 19th and early 20th centuries, including slavery, the Civil War, Reconstruction, industrialization and urbanization, the growth of an American empire, immigration, the rise of organized labor, and the Progressive Era.

HIST& 148
U.S. History III [S/B] • 5.0 Credits
Survey of United States history from World War I to the present. Examines economic, social, and political events that shaped the 20th and early 21st centuries, including World War II, the Great Depression and the New Deal, the Cold War, the Civil Rights movement, the Vietnam War, and critical changes in domestic and foreign affairs.

HIST 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

HIST 212
American Military History from the Colonial Period to the Present [S/B] • 5.0 Credits
This course covers the development of American military policies, organizational patterns, tactics, and weaponry, from beginnings as a seventeenth-century frontier defense force to the global conflicts and military commitments of the twenty-first century. Explores the interaction and tension between need for an effective military force and concept of civilian control of that force as well as the impact of culture and society upon the military and vice versa.

HIST& 214
Pacific Northwest History • 5.0 Credits
Formerly HIS 251, HIST& 214
A general history of the Pacific Northwest with particular emphasis on Washington state. Special emphasis is given to Indian culture, Indian-White relations, settlement, race relations, industrialization, and changes created by WWI and WWII.

HIST& 215
Women in U.S. History [H] • 5.0 Credits
An introductory survey of women in U.S. history from pre-colonial times to the present. This course explores women's experiences, including historical attitudes about women's place in society and the realities of life and work for women. This course also explores how female roles in family, work, politics, and culture have changed over time. Emphasizes the diversity among women in terms of race, ethnicity, class, and sexuality.
Prerequisite: This course is cross-listed with WS 215. Students completing HIST& 215 may not receive graduation credit for WS 215.

HIST 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Horticulture

HORT 202
Cultivated Plants W/Lab [RE] • 5.0 Credits
The goal of the course is to introduce students to the morphology, anatomy, growth, and development of agronomic and horticultural crops. $35 science fee.

HORT 203
Crop Growth & Development W/ Lab [RE] • 5.0 Credits
Basic scientific principles of crop growth and development, including external abiotic (light, temperature, water, and nutrients) influences and their interaction with internal influences (genes, proteins, and hormones) from the cellular to the whole plant level. Consideration of how the application of such scientific knowledge has and can lead to crop improvement for efficient and sustainable crop production is emphasized. $35 science fee.

HORT 235
Greenhouse Production and Management W/ Lab [RE] • 3.0 Credits
This course covers the operation and management of greenhouses and other controlled environments used in crop/horticultural production with emphasis on system design and construction, lighting methods and intensity, heating and cooling systems, growing media, plant nutrition, water quality and irrigation systems. This course also offers basic understanding of greenhouse production of plants, cultural control and practices specific to greenhouse production. $35 science fee.

HORT 242
Hydroponic Technology w/ Lab [RE] • 4.0 Credits
This hands-on intensive course will introduce students to soilless hydroponic crop production. The course will provide information on key components of hydroponic crop production including plant growth and nutrition, growing systems, and cultural practices. Students will apply concepts to the growth of hydroponic crops in a commercial greenhouse setting. $35 science fee.

HORT 251
Plant Propagation W/ Lab [RE] • 5.0 Credits
An introduction to the methods of plant propagation including methods of propagating by true seed, bulbs, divisions, layering, cuttings, budding, grafting, and micro-propagation. Emphasis is placed on the basic principles necessary to furnish an adequate understanding for commercial and industrial application. $35 science fee.

Hospitality

HSP 102
Lodging Operations [RE] • 2.0 Credits
This course offers an overview of hotel room division operations, focusing on key departments such as front office, housekeeping, engineering, night audit, security, revenue management, etc. Students will explore essential procedures, industry technologies, and hotel management software. Students will also learn demand management strategies and techniques for optimizing hotel occupancy and efficiency.

HSP 105
ServeSafe Training and Certification [RE] • 2.0 Credits
This course prepares students for ServSafe certification by providing essential knowledge of food safety and sanitation practices in the food service industry. Topics include foodborne illnesses, personal hygiene, proper food handling, safe storage, temperature control, and cleaning and sanitizing procedures. Upon successful completion of coursework and in-class review, students will be prepared to take the ServSafe Food Manager Certification exam.

HSP 107
Guest Service Professional [RE] • 2.0 Credits
This course is an introduction to the duties and primary functions of a guest service professional to maintain the highest level of service excellence. Successful completion of this course results in a certified guest service professional credential.

HSP 108
Hospitality Internship [RE] • 1.0–6.0 Credits
Students serve an internship with a company that offers the application of classroom learning with on-the-job experiences in the hospitality industry. The student will be placed with an employer where the environment will build on the student's area of career interest and prepare them to be productive employees. Grade is pass/no credit.

HSP 110
Introduction to Hospitality [RE] • 5.0 Credits
This course offers an overview of the hospitality industry, exploring key sectors such as restaurants, beverages, lodging, meeting and event planning, travel, etc. The course also covers the diverse functions of hospitality sectors, leading-edge issues, trends, career opportunities, and essential leadership and management skills necessary for success in the field.

HSP 115
Food and Beverage Management [RE] • 5.0 Credits
This course introduces students to the hospitality food service industry, exploring its diverse operations and the essential skills for effective management. Topics include an overview of food and beverage outlets, food service marketing, menu analysis, and pricing strategies. Students will also examine service standard operating procedures, various service styles, food and beverage sourcing, and beverage management and understand the industry's key functions and best practices.

Human Development

HDEV 100
College Success [RE] • 3.0 Credits
Formerly ED 100, EDUC 100, HDEV 100
This course is designed to assist students in learning effective techniques for having a college experience that is successful both academically and personally. Topics include: time management, test-taking, communication skills, learning styles, and campus resources. The development of critical thinking skills are incorporated throughout the course. $8 LASSI test fee.

HDEV 101
Creating Academic Success [RE] • 4.0 Credits
A mandatory course for all first-quarter students new to college (excluding those in the Running Start, Welding, Automotive, and Short-Term Certificate programs). Designed to help students identify and understand the fundamental characteristics and learning strategies needed to achieve their goals for college and beyond. Students explore the role that personal responsibility, behaviors, and beliefs play in academic and personal achievement. Students utilize campus tools and resources to develop academic plans that support their career and educational goals.

HDEV 102
College Connections [RE] • 3.0 Credits
A mandatory class for all new to college first quarter students (Except Running Start, Welding and Automotive students). A seminar exploration of Columbia Basin College, college-level skills, behaviors, and expectations. Designed to empower students with a holistic, strengths-based approach to navigate career and college success. Students develop the skills necessary to perform academic planning and campus navigation. **Prerequisite: College-level placement into any two of three assessed subject areas: math, reading, and English composition. It is also recommended that students have computer skills and the ability to navigate online prior to enrollment.**

HDEV 110
Academic CPR [RE] • 1.0 Credit
Academic CPR is a course designed for students who have been dismissed from CBC. This course focuses on providing students with the tools and resources to raise their grades so that they may become academically successful and ultimately meet their educational goals. Some of the topics covered are: learning styles, an examination of personal academic records, time management, study strategies, developing problem-solving skills, self-exploration, career interests, and the creation of an action plan to achieve sound educational goals. Successful completion (i.e. earning a 3.0 grade or higher) in this course allows students in dismissal status to return to CBC prior to sitting out four quarters and to enroll without a substantial tuition penalty. Permission is required to enroll in this course.

HDEV 120
Career Experience [RE] • 1.0–15.0 Credits
This course focuses on experiential learning to assist students in developing educational and occupational goals. Topics include professionalism, networking strategies, innovative approaches to job seeking, and effective use of online resources in professional development. Students "try on a career" through job shadowing and conduct informational interviews with individuals in occupations that interest them. These real world experiences allow students to develop professionally and generate solid career possibilities that will increase the likelihood of making satisfying occupational choices. $120 student success fee.

HDEV 124
Dependable Strengths [RE] • 1.0–15.0 Credits
Discover core strengths to increase confidence and employability using the Dependable Strengths Articulation Process (DSAP). Students plan for a successful future by identifying core strengths from past experiences that aid in overall life and career satisfaction. Students explore the connection between their strengths and career choice. Topics include highly effective approaches to well-being and resiliency and more.

HDEV 128
Maximizing Choices [RE] • 1.0–15.0 Credits
Introduces effective decision making and goal setting models as they pertain to choosing a college major, a career, and other key life decisions. Students practice using these models in various decisions, from every day ones, to those that will lay the foundation for determining their educational, career, and life goals.

HDEV 135
College Major/Career Planning [RE] • 3.0 Credits
Formerly ED 135, EDUC 135, HDEV 135
This course is designed to assist students in gaining insight into interests, values, personality, strengths, and the decision-making processes necessary for choosing a college major and planning a career. This course is for those who are choosing, changing, or confirming their educational goals. Topics include growing career opportunities, job hunting techniques, goal-setting, and tools for success. $28 per quarter HDEV testing fee.

HDEV 199
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

Human Geography

GEOG& 200
Human Geography [S/B] • 5.0 Credits
An introduction to the use of human geography as a framework with which to critically analyze and understand the world, both on a micro and macro level. CBC's course in human cultural geography provides an introduction to the ways in which human groups think about, arrange, and modify their physical habitats. This geographic knowledge is a basic means to understanding one's own world and the worlds of others.

Industrial Drawing

DRW 106
Mechanical Drawing for Vocational Application [RE] • 3.0 Credits
A basic course in the technique of sketching and drawing. Welding students learn to create orthographic, oblique, and isometric renderings. This course also teaches dimensioning for the welding shop fabrication drawings. **Prerequisite: Acceptance into the Welding Technology program.**

Industrial Technology

INT 101
Forklift Operations [RE] • 1.0 Credit
This course provides training and preparation for powered forklift and pallet jack equipment operation in warehouse and industrial settings.

INT 105
Precision Measurement [RE] • 1.0 Credit
This course provides knowledge and skills for using tapes, rules, and calipers including various features, sizes, variations, and the technology behind the tool.

INT 130
Logistics Technician [RE] • 6.0 Credits
This course provides an overview of the world of supply chain logistics and good workplace habits in the context of the industry, including global supply chain life cycle, logistics environment, material handling equipment and safety, safety principles, quality control teamwork, communication, and using computers. $406 Logistics Technician lab fee.

Instrumentation and Control

IC 201
Instrumentation I [RE] • 5.0 Credits
The first of three courses focused on the in-depth knowledge required for specific jobs tailored to the instrumentation and control maintenance discipline. It builds upon the general and system component knowledge gained in the first level of the program. Both generic and plant specific equipment are included in the instruction. **Prerequisite: Completion of ELT I54 with a 2.0 or better, or concurrent enrollment, or instructor permission.**

IC 202
Instrumentation II [RE] • 5.0 Credits
The second of three courses focused on the in-depth knowledge and skills needed to maintain instrumentation in a nuclear power plant. Includes training on specific components of the power plant. **Prerequisite: Completion of ELT 154 and IC 201 with a 2.0 or better, or instructor permission.**

IC 203
Instrumentation III [RE] • 5.0 Credits
The third of three courses focused on the in-depth knowledge and skills needed to maintain instrumentation in a nuclear power plant. Includes training on specific components of the power plant. **Prerequisite: Completion of IC 202 with a 2.0 or better, or instructor permission.**

IC 230
PLC Programming & Computer Interfacing [RE] • 5.0 Credits
Designed to prepare the instrumentation maintenance technician to program, trouble shoot, and maintain Programmable Logic Controllers (PLCs) and computer interfaces associated with the nuclear power plant. **Prerequisite: Completion of ELT 171 with a 0.7 or higher.**

Intercultural Studies

ICS 100
Cultural and Historical Linked to Travel • 1.0–3.0 Credits
An introduction to the history, culture, geography, art, and language of a country or countries, to be followed by a required trip to the area studied for an immersion experience.

ICS 120
Survey of Hispanic Culture [H] • 5.0 Credits
An introduction to the culture and civilization of the Spanish-speaking world; taught in English.

ICS 125
Native American Culture [H] • 5.0 Credits
Formerly HIST& 219, ICS 125
An introduction to the history and culture of Native American peoples. The situation of Native Americans in contemporary society is also discussed with particular focus on issues of tribal sovereignty.

ICS 130
Survey of Asian American Culture [H] • 5.0 Credits
An introduction to the history and people of Asian descent in the United States. This class covers the ethnic, national, cultural, and religious diversity of Americans who trace their culture and/or origins to Asia as well as the immigration and acculturation of members of these populations.

ICS 135
Survey of African American Cultures [H] • 5.0 Credits
Formerly HIS 106, HIST& 220, ICS 135
An introduction to the history of African Americans in the United States beginning with a study of the ancestors in Africa and ending with a discussion of the issue facing the African American community today.

ICS 199
Special Studies • 1.0–5.0 Credits
A class used to explore new coursework.

ICS 200
Intercultural Leadership [H] • 5.0 Credits
This class is ultimately a journey into self-discovery. It utilizes elements of poetry, personal narrative and reflective writing to help students discover their personal story and in time their voice. It does so with the purpose of fostering human connection and enhancing student engagement and leadership skills. By incorporating elements of leadership, personal expression, and vulnerability students will have opportunities to see themselves more clearly in their educational journeys. Not staking a claim, but rather claiming a stake in remembering, reliving, and retelling their lives and histories.

ICS 220
Globalization [S/B] • 5.0 Credits
Formerly ICS 220, SOC 220
Sociological analysis of the global interconnectedness of things, people, and ideas. Topics include economic development and trade, immigration and citizenship, human rights, transmission of culture and knowledge, and new technologies including the internet. Emphasis on understanding the significance of social forces and inequalities in shaping globalization processes. **Prerequisite: This course is cross-listed with SOC 220. Students completing ICS 220 may not receive graduation credit for SOC 220.**

ICS 222
Columbia Basin Cultures [H] • 5.0 Credits
A study of the history and contemporary situation of the Columbia Basin with special attention paid to Native Americans, Hispanic Americans, Asian Americans, and African Americans. Important topics include early settlement, labor relations, race relations, and historic and modern patterns of migration.

ICS 255
Race and Ethnic Relations [S/B] • 5.0 Credits
Relationships among various ethnic and racial groups in America, patterns of immigration, assimilation and mobility, and inter-ethnic conflicts and coalitions are examined. Although the perspective is historical, contemporary data is used to explore the question of the persisting

impact of ethnicity. Special attention is paid to the relationship between ethnicity and social class.

ICS 299
Special Studies • 1.0–5.0 Credits
A class used to explore new coursework.

ICS 310
American Diversity [H] • 5.0 Credits
This course examines race, ethnicity, class, gender, disability, sexuality, and other forms of diversity, with the goal of understanding how diversity is changing the contours of American society and reshaping the American workplace. Students explore diversity with an aim towards applying that knowledge to workplace and social relationships in our pluralistic society. By the end of the course, students will have a greater understanding of the diverse context of American society and will be conversant in the ongoing debates regarding race, class, gender, disability, and sexuality in our society today. Finally, students will become aware of their own cultural assumptions, perspectives, and habits so that they might engage respectfully with others who do not share their opinions, viewpoints, and cultural worldview. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

ICS 320
Culture and Health [H] • 5.0 Credits
This course examines race, ethnicity, class, gender, disability, sexuality, and other forms of diversity, with the goal of understanding how these factors can affect health and the delivery of health care to members of a pluralistic society. Students will explore this diversity with an aim towards applying the knowledge to the health care workplace and other social interactions. By the end of the course, students will have a greater understanding of the diverse context of American society and will be able to apply these concepts when interacting with their diverse patients and clients. Finally, students will become aware of their own cultural assumptions, perspectives, and habits so that they might engage respectfully with others who do not share their opinions, viewpoints, and cultural worldview. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

Japanese

JAPN& 121
Japanese I [H] • 5.0 Credits
Formerly JAPN& 121, JPSE 101
Introduction to the Japanese language including speaking and listening skills, reading, writing, and grammar, and the Japanese culture including geography, customs, daily life, and heritage. Designed for the novice learner of Japanese, with little or no proficiency in the Japanese language. It is recommended that students complete at least ENGL 99 prior to enrollment.

JAPN& 122
Japanese II [H] • 5.0 Credits
Formerly JAPN& 122, JPSE 102
Introduction to the Japanese language including speaking and listening skills, reading, writing, and grammar, and the Japanese culture including geography, customs, daily life, and heritage. **Prerequisite: Completion of JAPN& 121 with a 0.7 or higher, or instructor permission.**

JAPN& 123
Japanese III [H] • 5.0 Credits
Formerly JAPN& 123, JPSE 103
Introduction to the Japanese language including speaking and listening skills, reading, writing, and grammar, and the Japanese culture including geography, customs, daily life, and heritage. **Prerequisite: Completion of JAPN& 122 with a 0.7 or higher, or instructor permission.**

JAPN& 221
Japanese IV [H] • 5.0 Credits
Formerly JAPN& 221, JPSE 201
Extensive practice in all four language skills (reading, writing, speaking, and listening). This course includes cultural readings and includes an in-depth review of basic Japanese grammar, expansion of basic vocabulary, and a broadening of students' understanding of Japanese culture (including geography, customs, daily life, and heritage). **Prerequisite: Completion of JAPN& 123 with a 0.7 or higher, or instructor permission.**

JAPN& 222
Japanese V [H] • 5.0 Credits
Formerly JAPN& 222, JPSE 202
Extensive practice in all four language skills (reading, writing, speaking, and listening). This course includes cultural readings and in-depth review of basic Japanese grammar, expansion of basic vocabulary, and a broadening of students understanding of Japanese culture. **Prerequisite: Completion of JAPN& 221 with a 0.7 or higher, or instructor permission.**

JAPN& 223
Japanese VI [H] • 5.0 Credits
Formerly JAPN& 223, JPSE 203
Extensive practice in all four language skills (reading, writing, speaking, and listening). The course includes cultural readings and in-depth review of basic Japanese grammar, expansion of basic vocabulary, and a broadening of students understanding of Japanese culture. **Prerequisite: Completion of JAPN& 222 with a 0.7 or higher, or instructor permission.**

JAPN 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Logistics & Supply Chain Resilience

LSCR 100
Introduction to Logistics [RE] • 5.0 Credits
This course will cover the function of logistics and its impact on industries and the global economy. It will survey the various modes as well as the risks and challenges of a worldwide logistics enterprise. The course also introduces tools, techniques, and technology employed in logistics.

LSCR 101
Intro to Purchasing and Supply Chain Management [RE] • 5.0 Credits
This course covers the role of Purchasing and Supply Chain Management in the management of goods, services, information, and finance, across the globe from raw material inputs to delivery of products and services to customers and end consumers. The course introduces the integration of operations, logistics, and supply chain management that is critical for competing in the global marketplace.

LSCR 150
Introduction to Supply Chain Resilience [RE] • 5.0 Credits
The course examines common elements identified in disruptions to the supply chain, typical responses, and the importance of maintaining a resilient supply chain in a global economy. The course covers topics such as capability to respond, agility and adaptation, and developing a recovery plan. **Prerequisite: Completion of LSCR 100 and LSCR 101 with a 1.0 or better.**

LSCR 220
Supply Chain Analytics [RE] • 5.0 Credits
This course explores the concepts, principles and analysis used to plan, organize, and manage the supply chain and logistics. Important analytical analysis methods used in the supply chain are covered including data visualization, demand forecasting and planning resource, allocation simulations, outsourcing analysis, inventory control models, transportation, and network optimization. **Prerequisite: Completion of LSCR 100 and LSCR 101 with a 1.0 or better.**

LSCR 230
Contract Management [RE] • 5.0 Credits
This course covers the contract management process through the different phases of Pre-Award, Award, and Post-Award. The class will explore policies, common practices, techniques in negotiation, the roles and responsibilities of the contract manager, and the importance of contract management in the context of supply chain and logistics.

LSCR 240
Enterprise Resource Planning Systems [RE] • 5.0 Credits
Examines multiple systems common to the business enterprise and their application in supply chain and logistics. Topics include enterprise integration of processes and data, inventory management, master scheduling, and material and capacity planning. **Prerequisite: Completion of LSCR 101 with a 1.0 or better.**

LSCR 250
Advanced Supply Chain Resilience [RE] • 5.0 Credits
This course explores more advanced techniques in supply chain resilience such as continuous improvement models, cybersecurity, crisis response, natural disaster and pandemic planning, physical security, and navigating the political environment. The course explores the importance of partnerships, supplier development, capacity planning and forecasting, multi-sourcing, nearshoring, and supplier diversity. **Prerequisite: Completion of LSCR 100, LSCR 101, and LSCR 150 with a 1.0 or better.**

LSCR 260
Contemporary Topics in Global Supply Chain Management [RE] • 5.0 Credits
The course covers recent trends, challenges, methods, policies, and the importance of importing and exporting to the global economy. This course introduces the idea of international trade which impacts logistics and supply chain management. **Prerequisite: Completion of LSCR 100 and LSCR 101 with a 1.0 or better.**

LSCR 280
Logistics and Supply Chain Resilience Capstone [RE] • 5.0 Credits
Analyze data and case studies and resolve issues presented in supply chain management cases, specifically related to supply chain risk management, and logistics problems, and develop a reaction plan. **Prerequisite: Completion of LSCR 100, LSCR 101, LSCR 150, LSCR 220, LSCR 230, LSCR 240, LSCR 250, and LSCR 260, all with a 1.0 or better.**

Manufacturing Technology

MT 102
Solidworks(R) I [RE] • 4.0 Credits
This course is an introduction to SolidWorks(R) design software. The intent is to guide students through the software so they develop an understanding of how parts are designed as well as the concepts of blueprint construction/reading. The principles of geometric construction and constraints such as perpendicularity, concentricity, and parallelism are stressed so students are able to understand the workings of a precision model. $25 Solidworks fee. $11.40 lab fee. **Prerequisite: Completion of BPR 105 with a 2.0 or higher, or instructor permission.**

MT 111
Introduction to Manual Machining [RE] • 4.0 Credits
This course is designed to give students skills in using measuring instruments and concepts of machining with a metal lathe. Upon completion of this course, students should know how to turn and measure diameters within .001", cut threads, knurl, and cut tapers. **Prerequisite: Acceptance into the Manufacturing Technology program.**

MT 112
Introduction to Manual Machining Lab [RE] • 1.0–7.0 Credits
Formerly MT 112
Work on projects using the lathe to practice the concepts taught in the class. $50 per credit machine shop fee. $11.40 lab fee. **Prerequisite: Acceptance into the Manufacturing Technology program.**

MT 121
Intermediate Manual Machining Techniques [RE] • 4.0 Credits
This course is designed to build skills and knowledge on vertical and horizontal milling machine. Upon completion, students should be able to set up a milling machine to cut features with a tolerance of .001". **Prerequisite: Completion of BPR 105, MT 111, and MT 112, all with a 2.0 or higher, or instructor permission.**

MT 122
Intermediate Manual Machining Techniques Lab [RE] • 1.0–7.0 Credits
Formerly MT 122
Work on projects using the lathe and milling machine to practice the concepts taught in class. $50 per credit machine shop fee. $11.40 lab fee. **Prerequisite: Completion of BPR 105, MT 111, and MT 112, all with a 2.0 or higher, or instructor permission.**

MT 131
Advanced Manual Machining [RE] • 4.0 Credits
This course is designed to allow students to learn about job planning, scheduling, and estimating parts as well as producing a product suggested by the instructor. **Prerequisite: Completion of MT 102, MT 121, and MT 122, all with a 2.0 or better, or instructor permission.**

MT 132
Advanced Manual Machining Lab [RE] • 1.0–7.0 Credits
Formerly MT 132
Work on projects using the lathe and milling machine to practice the concepts taught in class. $50 per credit machine shop fee. $11.40 lab fee. **Prerequisite: Completion of MT 102, MT 121, and MT 122, all with a 2.0 or better, or instructor permission.**

MT 193
Independent Study [RE] • 1.0–15.0 Credits
A class used to explore new coursework or for a specific topic of special interest. $50 per credit machine shop fee. Grade is pass/no credit. **Prerequisite: Acceptance into the Manufacturing Technology program.**

MT 202
Solidworks(R) II [RE] • 4.0 Credits
This course prepares students to take the Certified SolidWorks(R) Associate Exam. $25 Solidworks fee. **Prerequisite: Completion of MT 102 with a 2.0 or higher, or instructor permission.**

MT 211
Introduction to CNC Machining [RE] • 4.0 Credits
This course is designed to build skills and knowledge in Computer Numerical Controlled (CNC) milling. Upon completion of this course, students should be able to program, set up, and operate a CNC milling machine. **Prerequisite: Acceptance into the Manufacturing Technology program.**

MT 212
Introduction to CNC Machining Lab [RE] • 1.0–7.0 Credits
Formerly MT 212
Work on projects using the lathe and milling machine to practice the concepts taught in class. $50 per credit machine shop fee. $11.40 lab fee. **Prerequisite: Acceptance into the Manufacturing Technology program.**

MT 221
Intermediate CNC Machining and Programming [RE] • 4.0 Credits
This course is designed to build skill and knowledge in CNC. Upon completion of this course, students should be able to program, set up, and operate CNC equipment. **Prerequisite: Completion of MT 211 and MT 212 with a 2.0 or higher, or instructor permission.**

MT 222
Intermediate CNC Machining and Programming Lab [RE] • 1.0–7.0 Credits
Formerly MT 222
Work on projects using the CNC to practice the concepts taught in class. $50 per credit machine shop fee. $11.40 lab fee. **Prerequisite: Completion of MT 211 and MT 212 with a 2.0 or higher, or instructor permission.**

MT 231
Advanced CNC Machining Technologies [RE] • 4.0 Credits
This course is designed to build skill and knowledge in Computer Aided Manufacturing (CAM). Upon completion of this course, students should be able to draw a part in a solid modeling software, write a program with the CAM system, and machine the part on a CNC. **Prerequisite: Completion of MT 221 and MT 222 with a 2.0 or higher, or instructor permission.**

MT 232
Advanced CNC Machining Technologies Lab [RE] • 1.0–7.0 Credits
Formerly MT 232
Work on projects using SolidWorks(R), CAM system, and CNC milling machine to practice the concepts taught in class. $50 per credit machine shop fee. $11.40 lab fee. **Prerequisite: Completion of MT 221 and MT 222 with a 2.0 or higher, or instructor permission.**

Mathematics

MATH 50
Quantitative Literacy [RE] • 5.0 Credits
This course is designed to engage students in complex and realistic situations involving the mathematics of quantity, change and relationships, spatial reasoning, geometric investigations, probability and statistics. Intermediate algebra topics include linear and nonlinear models, ratios, proportions, percents and dimensional analysis. Note that this course will not satisfy the intermediate algebra requirement of the University of Washington. $11.40 math lab fee. $10 math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in either MATH 40 or ABE 52, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

MATH 60
Algebra I [RE] • 5.0 Credits
This course includes linear equations and applications, linear inequalities, compound linear inequalities, absolute value equations and inequalities, graphing linear equations in two variables, slope and intercepts, finding the equation of a line, functions and relations, graphs of basic functions, systems of linear equations in two variables, systems of inequalities in two variables, adding and subtracting polynomials, polynomial multiplication and division. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.5 or better in either MATH 40 or ABE 52, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

MATH 62
Algebra I Supported [RE] • 7.0 Credits
This course includes linear equations and applications, linear inequalities, compound linear inequalities, absolute value equations and inequalities, graphing linear equations in two variables, slope and intercepts, finding the equation of a line, functions and relations, graphs of basic functions, systems of linear equations in two variables, systems of inequalities in two variables, adding and subtracting polynomials, polynomial multiplication and division. Additional two hours per week of the course will provide review for essential prerequisite material. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in either MATH 40 or ABE 52, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

MATH 70
Algebra II [RE] • 5.0 Credits
This course includes factoring polynomials and solving polynomial equations, rational expressions, complex fractions, rational equations and inequalities, radical expressions, simplifying expressions with radicals and rational exponents, radical equations and functions, complex numbers, methods for solving quadratic equations and applications, exponential and logarithmic properties and equations. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.5 or better in MATH 60 or 62, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

MATH 72
Algebra II Supported [RE] • 7.0 Credits
This course includes factoring polynomials and solving polynomial equations, rational expressions, complex fractions, rational equations and inequalities, radical expressions, simplifying expressions with radicals and rational exponents, radical equations and functions, complex numbers, methods for solving quadratic equations and applications, exponential and logarithmic properties and equations. Additional two hours per week of the course will provide review for essential prerequisite material. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH 60 or 62, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

MATH 100
Algebraic Tools for Vocational Application [RE] • 5.0 Credits
Formerly MATH 100, MTH 100
Designed to introduce the student to the tools and concepts necessary to solve mathematical problems applicable to the student's trade. Topics include ratios and proportions, percentages, measurement, applying formulas, basic algebra concepts, geometry, and basic triangle trigonometry. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: Acceptance into CBC's Automotive, Welding Technology, or Manufacturing Technology program, or instructor permission.**

MATH 106
Business Mathematics [RE] • 5.0 Credits
Formerly MATH 106, MTH 106
Mathematical concepts used in business such as interest, annuities, mortgages, investments, and taxes. Required by some majors for the AAS degree; does not satisfy math requirement for AA degree. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH 50, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

MATH& 107
Math In Society [M/S] [Q/SR] • 5.0 Credits
Formerly MATH& 107, MTH 110, MTH 130
This course is designed for students who have successfully completed intermediate algebra coursework. This course will introduce students to mathematical applications in a variety of disciplines and will satisfy the quantitative/symbolic reasoning requirement for the AA degree. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 0.7 or better in MATH 106 or a higher math class (except MATH 108), or appropriate placement.**

MATH 108
Math for Early Childhood Education [RE] • 5.0 Credits
Formerly MATH 108, MTH 108
An elementary introduction to problem-solving, fractions and decimals, probability and statistics, geometry and measurement, and functions and graphs. Intended for early childhood and para education majors only. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in either MATH 40 or ABE 52, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

MATH 113
Geometry/Trigonometry [M/S] • 5.0 Credits
Formerly MATH 113, MTH 103, MTH 113
Areas and volumes of basic geometric figures, approximations, ratio and proportions, literal equations, scientific notation, vectors, logarithms, complex numbers, trigonometric functions, and graphs of trigonometric functions. Recommended for students intending to take PHYS& 114. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH 70 or 72, or a grade of 0.7 or better in a higher math class (excluding MATH 100, MATH& 107 and MATH& 146), or appropriate placement.**

MATH& 141
Precalculus I [M/S] [Q/SR] • 5.0 Credits
Formerly MATH& 141, MTH 104, MTH 154
Designed to prepare students for entry into basic calculus. Precalculus I together with Precalculus II is designed to prepare students for entry into the calculus sequence: MATH& 151, MATH& 152, MATH& 153, and MATH& 254. The topics include: absolute value, complex numbers, linear and quadratic equations, rational, polynomial, exponential and logarithmic functions, inverse functions, theory of equations, and sequences and series. Students completing MATH& 141 may not receive graduation credit for MATH& 144. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH 70 or 72, or a grade of 0.7 or better in a higher math class (excluding MATH 100, MATH& 107 and MATH& 146), or appropriate placement.**

MATH& 142
Precalculus II [M/S] [Q/SR] • 5.0 Credits
Formerly MATH& 142, MTH 105, MTH 155
Precalculus II is the second quarter of the precalculus sequence. Precalculus II is predominantly trigonometry. The topics include trigonometric functions and their inverses, solving triangles, circular functions, identities, conditional equations, complex numbers in polar form, conic sections, parametric and polar equations, systems of equations, matrices and determinants, and vectors. Students completing MATH& 142 may not receive graduation credit for MATH& 144. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: Completion of MATH& 141 with a 2.0 or better, or a higher math course with a 0.7 or better, or appropriate placement.**

MATH& 146
Introduction to Stats [M/S] [Q/SR] • 5.0 Credits
Formerly MATH& 146, MTH 143
A course especially suited for the non-physical science major such as business, medical professionals, behavioral sciences, computer science, etc. A study of both descriptive and inferential statistics, including: measures of central tendency, random variables, probability, probability distributions, sampling methods, confidence intervals, hypothesis testing, estimation, linear regression, and correlation. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH 50, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

MATH 147
Finite Math [M/S] [Q/SR] • 5.0 Credits
Formerly MATH 147, MTH 147, MTH 200
A course especially suited for students in behavioral, managerial, and social sciences. Topics include: matrices, systems of linear equations and inequalities, finance, probability and counting techniques, exponential, and logarithmic functions. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH 70 or 72, or a grade of 0.7 or better in a higher math class (excluding MATH 100, MATH& 107 and MATH& 146), or appropriate placement.**

MATH& 148
Business Calculus [M/S] [Q/SR] • 5.0 Credits
Formerly MATH& 148, MTH 210
Designed for non-physical science majors such as business, management, behavioral science, and social science. Topics include: relations, functions, exponential and logarithmic functions, derivatives and their applications, integrals and their applications, and functions of several variables. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in one of the following courses: MATH 70 or MATH 72 or MATH 147, or appropriate placement. It is also recommended that students complete MATH& 141 prior to enrollment.**

MATH& 151
Calculus I [M/S] [Q/SR] • 5.0 Credits
Formerly MATH& 151, MTH 201, MTH 231
The first course in the sequence for students whose major field of study requires a full year of calculus. Topics include: limits of algebraic and trigonometric expressions and exponential and logarithm functions; the derivatives of algebraic, trigonometric functions, and their inverses; exponential and logarithm functions; hyperbolic functions and their inverses; applications of the derivative, and an introduction to antiderivatives and the definite and indefinite integral. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH& 142, or appropriate placement.**

MATH& 152
Calculus II [M/S] [Q/SR] • 5.0 Credits
Formerly MATH& 152, MTH 202, MTH 232
A continuation of MATH& 151. Topics include: the fundamental theorem of calculus; techniques of integration; trigonometric integrals and substitution; applications of the definite integral including areas, average values, and volumes; improper integrals; and parametric equations, polar coordinates, arc length, and surface area with polar functions. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH& 151, or a grade of 0.7 or better in a higher math class.**

MATH& 153
Calculus III [M/S] [Q/SR] • 5.0 Credits
Formerly MATH& 153, MTH 203, MTH 233
A continuation of MATH& 152. Topics include: infinite sequences and series; MacLaurin, Taylor, and power series; conic sections, vectors, and the calculus of vector functions in two and three dimensions with applications. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH& 152, or a grade of 0.7 or better in a higher math class.**

MATH& 171
Math for Elementary Education I [M/S] • 5.0 Credits
Formerly MATH 121, MATH& 171, MTH 121, MTH 211
An introduction to problem-solving principles and strategies, sets and logic, numeration systems, properties of the real number system and its subsystems, and applications of mathematics. Primarily for elementary education majors. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH 70 or 72, or a grade of 0.7 or better in a higher math class (excluding MATH 100, MATH& 107 and MATH& 146), or appropriate placement.**

MATH& 172
Math for Elementary Education II [M/S] [Q/SR] • 5.0 Credits
Formerly MATH 122, MATH& 172, MTH 122, MTH 212
An informal approach to the basic ideas of geometry; including construction, congruence and similarity, transformations, symmetry, measurement, and coordinate geometry. This course satisfies the quantitative skills requirement for the AA degree, provided that MATH& 171 (previously MATH 121) has also been successfully completed. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: Completion of MATH& 171 with a 2.0 or better.**

MATH& 173
Math for Elementary Education III [M/S] [Q/SR] • 5.0 Credits
Formerly MATH 123, MATH& 173
An elementary introduction to algebraic reasoning, probability, and statistics. Primarily for elementary education majors. This course satisfies the quantitative skills requirement for the AA degree, provided that MATH& 171 has been successfully completed. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: Completion of MATH& 171 with a 2.0 or better.**

MATH 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center.

MATH 243
Linear Algebra [M/S] [Q/SR] • 5.0 Credits
Formerly MATH 243, MTH 213, MTH 243
Designed for physical science majors in fields such as mathematics, engineering, and physics. Topics include vectors, matrices and determinants, lines and planes in 3-space, linear systems, vector spaces, linear transformations, eigenvalues, and eigenvectors. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 2.0 or better in MATH& 151, or a grade of 0.7 or better in a higher math class.**

MATH 246
Discrete Structures [M/S] [Q/SR] • 5.0 Credits
Formerly MATH 246, MTH 216, MTH 246
An introduction to discrete mathematics, trees, graphs, elementary logic, and combinatorics with applications to computer science. $11.40 Math lab

fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: Completion of MATH& 141 with a 2.0 or better, or a higher math class (excluding MATH& 146) with a minimum grade of 0.7, or by instructor permission. A knowledge of computers, programming, and calculus is beneficial but is not required.**

MATH& 254
Calculus IV [M/S] [Q/SR] • 5.0 Credits
Formerly MATH& 254, MTH 204, MTH 234
An introduction to the calculus applied to functions of two or three variables. Topics include: functions of several variables, partial derivatives, directional derivatives, multiple integration, integration using cylindrical and spherical coordinates, vector fields, line integrals, surfaces and surface integrals, Green's Theorem, Stoke's Theorem, and the Divergence Theorem. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: Completion of MATH& 153 with a 2.0 or better, or a higher math class with a 0.7 or better.**

MATH 255
Differential Equations [M/S] [Q/SR] • 5.0 Credits
Formerly MATH 255, MTH 254
Beginning course in differential equations. Topics include first order methods, linear differential operators, Laplace transforms, series methods, and numerical techniques. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center. **Prerequisite: A grade of 0.7 or better in MATH& 153 or a higher math class, or concurrent enrollment in MATH& 153 or a higher math class.**

MATH 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $11.40 Math lab fee. $10 Math course fee for supplies and to provide tutoring for students. Students are encouraged to access tutoring at the Academic Success Center.

MATH 346
Mathematical Foundations for Computer Science • 5.0 Credits
This course provides a rigorous introduction to the mathematical concepts essential for success in computer science, with a special emphasis on the foundations required for artificial intelligence. Designed for students who have completed algebra and are preparing for advanced study in computing, this course blends traditional discrete mathematics with applied topics in linear algebra, logic, and number systems. Students will explore how mathematical structures underpin algorithms, programming languages, graphics, and machine learning models. **Prerequisite: Completion of MATH&141 or a higher math class (excluding Math&171/172/173) with a 2.0, or appropriate placement.**

Medical Assistant

MA 111
Pharmacology I [RE] • 5.0 Credits
Provides a basic knowledge of pharmacology including the legal ethical issues, the terms and abbreviations, the involvement of governmental agencies, the role of the providers and allied health professional, reading, interpreting and documenting the medication orders; and the effects of medication and common drugs used with each body system including antineoplastics, analgesics, antipyretics, nutritional supplements, and alternative medicines and immunizations. **Prerequisite: Acceptance into the Medical Assistant program at CBC.**

MA 114
Human Body Structure, Function, and Diseases I [RE] • 4.0 Credits
Formerly MA 114, MRHI 114
This is the first of two structure and function classes introducing cellular function, organ systems of the body, the anatomy and physiology of the integumentary, skeletal, muscular, nervous, endocrine systems, and the senses. Common diseases related to each of these body systems is presented as well as pathology and expected medical treatment. $10.72 per quarter malpractice insurance fee. **Prerequisite: Completion of HSCI 147 with a 0.7 or higher and acceptance into the Medical Assistant program at CBC.**

MA 115
Clinical Procedures Theory I [RE] • 4.0 Credits
This class provides a theoretical foundation in medical asepsis, infection control, vital signs, phlebotomy, cardiopulmonary procedures, colon procedures, introduction to the clinical laboratory, urinalysis, and a theoretical foundation for the gynecological exam, prenatal care, pediatric exams, and office emergencies. **Prerequisite: Completion of MA 111, MA 114, and MA 140, all with a 0.7 or higher. This course to be taken concurrently with MA 116 (lab course).**

MA 116
Clinical Procedures Lab I [RE] • 4.0 Credits
Formerly MA 116
This lab class provides for a practice in basic patient exam techniques, procedures, lab tests, and injections commonly performed in the physician's office or clinic. $11.40 lab fee. **Prerequisite: Completion of MA 111, MA 114, and MA 140, all with a 0.7 or higher. This course to be taken concurrently with MA 115 (theory course).**

MA 140
Admin. Medical Assistant Office Procedures I [RE] • 5.0 Credits
This course defines the front office roles and responsibilities in a medical office. Major topics covered are a history of the medical assistant profession; written, verbal, and non-verbal communication; patient education; medical law and ethics, the medical record and introduction to the electronic medical record; and performing daily administrative office duties including: appointment scheduling, coordinating outpatient procedures, managing referrals for patients, and utilizing the computer and electronic medical record. $11.40 lab fee. **Prerequisite: Acceptance into the Medical Assistant program at CBC.**

MA 141
Career Development for Medical Assistants [RE] • 2.0 Credits
This class covers professionalism in a medical office, successful job search, interview techniques, the importance of networking, and how to be successful on the job. **Prerequisite: Completion of MA 115, MA 116, MA 211, and MA 214, all with a 0.7 or higher.**

MA 211
Pharmacology II [RE] • 5.0 Credits
This is the second of two pharmacology classes. This class includes the administration of medication including: safety and quality assurance, enteral, percutaneous, and parenteral routes of medication; measurement, conversions of medications for administration, calculating dosages and solutions, and immunization schedules. **Prerequisite: Completion of MA 111, MA 114, and MA 140, all with a 0.7 or higher.**

MA 214

Human Body Structure, Function, and Diseases II [RE] • 4.0 Credits

Formerly MA 214, MRHI 214

This is the second of two body structure, function, and disease courses and includes: the circulatory system, lymphatic system and immunity, the respiratory system, the digestive system, nutrition and metabolism, the urinary system, fluid and electrolyte balance, acid-base balance, the reproductive system, genetics, growth and development, mental disorders, and disorders and conditions resulting from trauma. Common diseases are presented for each of these body systems as well as pathology and expected medical treatment. **Prerequisite: Completion of MA 111, MA 114, and MA 140, all with a 0.7 or higher.**

MA 215

Clinical Procedures Theory II [RE] • 4.0 Credits

This class provides a theoretical foundation in physical agents to promote tissue healing, radiology, sterilization and disinfection, minor office surgery, eye and ear assessment and procedures, the physical examination, hematology, blood chemistry and serology, and medical microbiology. **Prerequisite: Completion of MA 115, MA 116, MA 211, and MA 214, all with a 0.7 or higher. This course to be taken concurrently with MA 216 (lab course).**

MA 216

Clinical Procedures Lab II [RE] • 4.0 Credits

Formerly MA 216

This class provides for a practice in basic patient exam techniques, procedures, lab tests, and basic sterile techniques commonly performed in the provider's office or clinic. $11.40 lab fee. **Prerequisite: Completion of MA 115, MA 116, MA 211, and MA 214, all with a 0.7 or higher. This course to be taken concurrently with MA 215 (theory course).**

MA 240

Admin. Medical Assistant Office Procedures II [RE] • 6.0 Credits

This course expands on front office roles and responsibilities of an Administrative Medical Assistant. Major topics covered include: patient account management, medical billing, medical banking services and procedures, management of practice finances, and the use of computers in the medical office including electronic medical record, and safety and emergency practices. **Prerequisite: Completion of MA 115, MA 116, MA 211, and MA 214, all with a 0.7 or higher.**

MA 241

Externship Seminar [RE] • 2.0 Credits

This course is to be taken concurrently with the externship for Medical Assistants. The seminar provides current information regarding workplace issues, technologies, and advancements in healthcare pertinent to the externship experience. Students engage in discussions based on their experiential learning opportunities within the externship. Grade is pass/no credit. **Prerequisite: Successful completion of all other Medical Assistant courses with a GPA of 2.0 or better.**

MA 242

Externship [RE] • 6.0 Credits

Formerly MA 242

This class provides an opportunity to apply the theory learned in the classroom setting to a healthcare setting through practical, hands-on experience. $10.72 per quarter malpractice insurance fee. **Prerequisite: Successful completion of all other Medical Assistant courses with a GPA of 2.0 or better.**

Medical Imaging Technology

IMAGE 225

Mammography [RE] • 4.0 Credits

Preparation for certification by the ARRT in mammography. In addition to didactic education, this course includes laboratory sessions in a mammography department. This course fulfills MQSA requirements of eight hours of digital education in mammography modality while performing mammography exams and 40 hours of Initial Training. Training in breast anatomy, physiology, positioning, compression, quality assurance/quality control techniques, and imaging of patients with breast implants. $10.72 per quarter malpractice insurance fee. **Prerequisite: Currently enrolled in an approved Radiologic Technology program or ARRT Certified Radiologic Technologist.**

IMAGE 229

Mammography Clinical [RE] • 4.0 Credits

Preparation for certification by the ARRT in mammography. This course includes clinical and laboratory sessions while in a mammography department. Special education in mammographic examinations under the supervision of a qualified mammographer. Training in breast anatomy, physiology, positioning, compression, quality assurance/quality control techniques, and imaging of patients with breast implants. This course requires documented performance of 25 examinations that include eight hours of training in each mammography modality while performing mammography exams. Documentation includes time sheets and competencies to be verified by the student and the clinical site. Students are assigned to a mammography clinical site to complete 132 hours. These hours are required to satisfy clinical competency requirements with MQSA and eligibility with ARRT to sit for the ARRT advanced-level exam in mammography. $10.72 per quarter malpractice insurance fee. $25.65 dosimetry badge fee. **Prerequisite: Currently enrolled in an approved Radiologic Technology program or ARRT Certified Radiologic Technologist.**

IMAGE 250

Cross Sectional Anatomy [RE] • 3.0 Credits

Course presents normal human anatomy in various planes using CT and MRI images. **Prerequisite: Currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.**

IMAGE 251

Advanced Sectional Anatomy [RE] • 2.0 Credits

Designed for students having completed a cross-sectional anatomy course. Neuro and vascular anatomy and sectional images of joint and extremity body areas are presented with CT and MRI images. **Prerequisite: Currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.**

IMAGE 265

Body Pathophysiology [RE] • 3.0 Credits

Presents pathologies of the abdomen, chest, and neck with physiological implications pertinent to CT, MR, Interventional, and Cardiac Cath imaging modalities. **Prerequisite: Currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.**

IMAGE 266
Neuropathophysiology [RE] • 3.0 Credits
Presents neurological based pathologies and the related diagnostic/interventional procedures applied in evaluation and treatment of them. **Prerequisite: Currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.**

IMAGE 270
CT Clinical Practicum I [RE] • 3.0 Credits
Provides hands-on experience in the clinical setting. Students perform designated tasks associated with CT scanning and procedures under direct and indirect supervision. Completion of this course prepares the student for entry-level work in a CT department. $10.72 per quarter malpractice insurance fee. $25.65 dosimetry badge fee. **Prerequisite: Currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.**

IMAGE 271
MRI Clinical Practicum [RE] • 3.0 Credits
Provides hands-on experience in the clinical setting. Students perform designated tasks associated with MRI scanning and procedures under direct and indirect supervision. $10.72 per quarter malpractice insurance fee. **Prerequisite: Currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.**

IMAGE 280
CT Instrumentation [RE] • 3.0 Credits
Designed to provide didactic preparation for advanced-level certification exam in CT scanning. Includes information pertaining to the equipment used, clinical application, specific technique applications, patient care, and quality control. **Prerequisite: Currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.**

IMAGE 281
MRI Instrumentation and Procedures [RE] • 3.0 Credits
Presents the physics of magnetization, image production, image weighting, pulse responses, scanning procedures, magnet safety, and the role of the technologist. **Prerequisite: Currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.**

Music

MUSC 100
Music Fundamentals • 3.0 Credits
Formerly MUS 100, MUSC 100
Non-major course covering basic concepts of rhythm, melody, keyboards, scales, and harmony.

MUSC& 105
Music Appreciation [H] • 5.0 Credits
Formerly MUS 115, MUSC& 105
The study of musical literature from early times to the present. Emphasis on listening and enjoyment through the use of recordings, attendance at concerts, and films.

MUSC 116
History of Jazz [H] • 5.0 Credits
Formerly MUS 116, MUSC 116
The evolution of jazz and the development of black music in white America. This is an intercultural humanities course. Emphasis on listening and enjoyment through the use of recordings, attendance at concerts, and films.

MUSC 118
Band • 1.0 Credit
Formerly MUS 118, MUSC 118
Instruction and performance of standard and contemporary wind literature. This course can be repeated for a maximum of six credits which can be applied to an AA degree. $11.40 lab fee.

MUSC 122
Applied Music • 1.0 Credit
Formerly MUS 122, MUSC 122
Private lessons on wind, percussion, and keyboard instruments. Instruction may be by CBC faculty or by instructors approved by the CBC Music department. There may be additional fees charged by the instructor. These courses are intended for students who are pursuing a degree in music. Instructor permission is required to enroll.

MUSC 123
Applied Music • 1.0 Credit
Formerly MUS 123, MUSC 123
Private vocal lessons. Instruction may be by CBC faculty or by instructors approved by the CBC Music department. There may be additional fees charged by the instructor. These courses are intended for students who are pursuing a degree in music. Instructor permission is required to enroll.

MUSC 124
Applied Music • 1.0 Credit
Formerly MUS 124, MUSC 124
Private lessons on string instruments. Instruction may be by CBC faculty or by instructors approved by the CBC Music department. There may be additional fees charged by the instructor. These courses are intended for students who are pursuing a degree in music. Instructor permission is required to enroll.

MUSC 125
Orchestra • 1.0 Credit
Formerly MUS 125, MUSC 125
Introduction in and performance of standard orchestral literature. This course can be repeated for a maximum of six credits which can be applied to an AA degree. Instructor permission is required to enroll. $11.40 lab fee. **Prerequisite: Orchestra instrument background and instructor permission required to enroll.**

MUSC 134
Piano Class • 2.0 Credits
Formerly MUS 134, MUSC 134
Group piano instruction for all students interested in beginning piano. Students may take more than one quarter. $11.40 lab fee.

MUSC 135
Piano Class • 2.0 Credits
Formerly MUS 135, MUSC 135

Group piano instruction for music majors and minors who cannot meet entrance requirements in piano and for all students interested in beginning piano. $11.40 lab fee.

MUSC 136
Piano Class • 2.0 Credits
Formerly MUS 136, MUSC 136
Group piano instruction for music majors and minors who cannot meet entrance requirements in piano and for all students interested in beginning piano. $11.40 lab fee.

MUSC 137
Jazz Band • 1.0–3.0 Credits
Formerly MUS 137, MUSC 137
Study, rehearse, and perform jazz, commercial, and big band literature. Performances required on and off campus. This course can be repeated for a maximum of six credits which can be applied to an AA degree. **Prerequisite: An audition is required to enroll.**

MUSC 138
Voice Class • 2.0 Credits
Formerly MUS 141, MUSC 138
An introduction to the principles of voice production, vocal literature, and vocal techniques.

MUSC 139
Voice Ensemble • 1.0–3.0 Credits
Formerly MUS 142, MUSC 139
Emphasis on vocal ensemble literature. May include different types of ensembles/styles according to available voicing.

MUSC 140
Vocal Jazz • 1.0–3.0 Credits
Formerly MUS 140, MUSC 140
Emphasis on swing and vocal jazz concepts within a performance ensemble. Performances required on and off campus. Auditions for this ensemble are held in May and June for the following academic year. Contact instructor for materials. This course can be repeated for a maximum of six credits which can be applied to an AA degree. **Prerequisite: An audition is required to enroll.**

MUSC& 141
Music Theory I • 5.0 Credits
Formerly MUS 101, MUSC& 141
Courses must be taken in sequence. The melodic, rhythmic and harmonic elements of music through ear-training, sight singing, writing, analysis, and keyboard work. This course should be taken concurrently with MUSC 171. Some music background is required. Students with no piano background should take MUSC 134 concurrently. Offered fall quarter only.

MUSC& 142
Music Theory II • 5.0 Credits
Formerly MUS 102, MUSC& 142
Courses must be taken in sequence. The melodic, rhythmic, and harmonic elements of music through ear-training, sight singing, writing, analysis, and keyboard work. Students with no piano background must take MUSC 135 concurrently. Offered winter quarter only. **Prerequisite: Completion of MUSC& 141 with a 0.7 or higher.**

MUSC& 143
Music Theory III • 5.0 Credits
Formerly MUS 103, MUSC& 143
Courses must be taken in sequence. The melodic, rhythmic, and harmonic elements of music through writing, analysis, ear-training, sight singing, and keyboard work. Music background is required. Students with no piano background must take MUSC 136 concurrently. Offered spring quarter only. **Prerequisite: Completion of MUSC& 142 with a 0.7 or higher.**

MUSC 147
Instrument Ensemble • 1.0 Credit
Formerly MUS 147, MUSC 147
The following ensembles will be organized if enrollment warrants: brass ensemble, woodwind ensemble, string ensemble, and mixed instrumental ensemble. A maximum of six elective credits from this course can be applied to an AA degree. Grade is pass/no credit.

MUSC 171
Ear Training Fundamentals • 1.0 Credit
Formerly MUS 171, MUSC 171
This class focuses on developing the skills to correctly identify major and minor scales, intervals, rhythmic patterns, and triads in root position. This class should be taken concurrently with MUSC& 141. Offered fall quarter only.

MUSC 172
Ear Training Fundamentals • 1.0 Credit
Formerly MUS 172, MUSC 172
This class focuses on developing the skills to correctly identify triads in first and second inversion, basic chord progressions, and cadences. This class should be taken concurrently with MUSC& 142. Offered winter quarter only.

MUSC 173
Ear Training Fundamentals • 1.0 Credit
Formerly MUS 173, MUSC 173
This class focuses on developing the skills to correctly identify seventh chords (both in root position and inversion), diatonic chord progression, and simple melodies containing basic non-harmonic tones. This class should be taken concurrently with MUSC& 143. Offered spring quarter only.

MUSC 181
Chorus • 1.0 Credit
Formerly MUS 181, MUSC 181
Instruction and performance of standard choral literature from a variety of historical periods and cultures. Performances required on and off campus. Open to all students. This course can be repeated for a maximum of six credits which can be applied to an AA degree.

MUSC 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

MUSC 216
Studio Problems - Conducting • 3.0 Credits
Formerly MUSC 216
Individual study for advanced students relating to conducting. **Prerequisite: Instructor permission and successful completion of classes in area of individual study and/or demonstrated proficiency in area of individual study required to enroll.**

MUSC 217
Studio Problems - Composition • 3.0 Credits
Formerly MUSC 217

Individual study for advanced students relating to composition. **Prerequisite: Instructor permission and successful completion of classes in area of individual study and/or demonstrated proficiency in area of individual study required to enroll.**

MUSC 218
Studio Problems - Performance • 3.0 Credits
Formerly MUSC 218
Individual study for advanced students relating to performance. **Prerequisite: Instructor permission and successful completion of classes in area of individual study and/or demonstrated proficiency in area of individual study required to enroll.**

MUSC 225
Applied Music • 1.0 Credit
Formerly MUS 225, MUSC 225
Advanced private vocal lessons. Instruction may be by CBC faculty or by instructors approved by the CBC music department. There may be additional fees charged by the instructor. These courses are intended for students who are pursuing a degree in music. Instructor permission is required to enroll.

MUSC 227
Applied Music • 2.0 Credits
Formerly MUS 227, MUSC 227
Advanced private instrumental lessons. Instruction may be by CBC faculty or by instructors approved by the CBC Music department. There may be additional fees charged by the instructor. These courses are intended for students who are pursuing a degree in music.

MUSC 240
Jazz Theory and Improvisation • 1.0–2.0 Credits
Formerly MUS 240, MUSC 240
A combination of jazz theory and improvisation techniques for the small group setting. The emphasis is on individual solving skills. Performance required at various CBC concerts and jazz festivals.

MUSC& 241
Music Theory IV • 5.0 Credits
Formerly MUS 204, MUSC& 241
Melody harmonization, harmonic dictation, chromatic harmony, advanced modulation, 20th century techniques, and oral composition. Offered fall quarter only. **Prerequisite: Completion of MUSC& 143 with a 0.7 or higher. This course should be taken concurrently with MUSC 274.**

MUSC& 242
Music Theory V • 5.0 Credits
Formerly MUS 205, MUSC& 242
Melody harmonization, harmonic dictation, chromatic harmony, advanced modulation, 20th century techniques, and oral composition. Offered winter quarter only. **Prerequisite: Completion of MUSC& 241 with a 0.7 or higher.**

MUSC& 243
Music Theory VI • 5.0 Credits
Formerly MUS 206, MUSC& 243
Melody harmonization, harmonic dictation, chromatic harmony, advanced modulation, 20th century techniques, and oral composition. Offered spring quarter only. **Prerequisite: Completion of MUSC& 242 with a 0.7 or higher.**

MUSC 244
Advanced Vocal Jazz • 1.0–3.0 Credits
Formerly MUS 242, MUSC 244
Emphasis on traditional and contemporary vocal jazz concepts in an advanced ensemble situation. Extensive audition required each spring for the following academic year. Performances required on and off campus. Auditions for this ensemble are held in May and June for the following academic year. Contact instructor for materials.This course can be repeated for a maximum of six credits which can be applied to an AA degree. **Prerequisite: An audition is required to enroll.**

MUSC 274
Advanced Ear Training • 1.0 Credit
Formerly MUS 274, MUSC 274
This class focuses on developing the skills to correctly identify chord progressions and melodic dictation, and continued work with ear training concepts. This class should be taken concurrently with MUSC& 241. Offered fall quarter only.

MUSC 275
Advanced Ear Training • 1.0 Credit
Formerly MUS 275, MUSC 275
This class focuses on developing the skills to correctly notate chord progressions using inversions, two-part melodic dictation, and identification of chromatically altered chords. This class should be taken concurrently with MUSC& 242. Offered winter quarter only.

MUSC 276
Advanced Ear Training • 1.0 Credit
Formerly MUS 276, MUSC 276
This class focuses on developing the skills to correctly notate chord progressions using inversions and chromatically altered chords, four-part dictation, and identification of scales, chords, and progressions as used in 20th century techniques. This class should be taken concurrently with MUSC& 243. Offered spring quarter only.

MUSC 281
Advanced Chorus • 1.0–2.0 Credits
Formerly MUS 281, MUSC 281
Instruction and performance of advanced choral literature from a variety of historical periods and cultures. Performances required on and off campus. This course can be repeated for a maximum of six credits which can be applied to an AA degree. Instructor permission is required to enroll.

MUSC 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Non-Licensed Operator

NOP 111
Hydraulic and Fluid Flows [RE] • 5.0 Credits
Introduction to the basic operations of hydraulic and fluid flows. Focuses on principles associated with lubrication, pumps, manual valves, valve operators, and components associated with strainers and filters. **Prerequisite: Completion of NT 131 with a 2.0 or better, or instructor permission.**

NOP 221
Advanced Operational Systems [RE] • 5.0 Credits
This course provides an introduction to electrical generation and distribution systems with a focus on transformers, motor and control

circuits, generators, and the impact of environmental conditions. **Prerequisite: Completion of either ELT 111 or ELT 124 with a 0.7 or higher, and either NT 121 or NT 122 with a 0.7 or higher.**

NOP 231
Advanced Facility Components [RE] • 5.0 Credits
This course introduces steam systems and key facility components, including steam traps, turbines, heat exchangers, diesel generators, air compressors, and HVAC equipment. It also provides a brief overview of supercritical CO¿ turbines and small modular reactor designs to illustrate modern approaches to heat removal and power conversion. **Prerequisite: Completion of NT 111 and NT 131 with a 2.0 or better, or instructor permission.**

NOP 241
Chemical & Water Treatment Systems [RE] • 5.0 Credits
Study of nuclear plant water chemistry, including corrosion mechanisms, radiolysis, coolant chemistry control, ion exchange, activated corrosion products, fission-product behavior, and BWR/PWR chemistry programs. **Prerequisite: Completion of NT 160 with a 2.0 or better, or instructor permission.**

NOP 251
Advanced Thermodynamics and Heat Transfer [RE] • 5.0 Credits
This course provides an introduction to industrial processes and cycles including steam plants, diesel generators, air compressors, and refrigeration cycles. It also covers advanced heat transfer topics including thermal hydraulics. **Prerequisite: Completion of NT 170 with a 2.0 or higher, or instructor permission.**

NOP 261
Instrumentation & Control for Operators [RE] • 5.0 Credits
Formerly IC 250, NOP 261
Basic introduction to instrumentation and control processes for operators. Topics include basic control circuits, pneumatic devices, sensors, and hydraulic controls. **Prerequisite: Completion of NT 111 with a 2.0 or higher, and either ELT 111 or ELT 124 with a 2.0 or higher, or instructor permission.**

Nuclear Technology

NT 101
Introduction to Clean Energy [RE] • 5.0 Credits
This course provides an overview of the clean energy sector, particularly highlighting nuclear energy. Students will explore career pathways in diverse fields that connect to the clean energy sector, research local and national initiatives, and explore the foundational principles of clean energy production. The course covers key concepts in power and energy systems, analyzing the benefits and challenges of various clean energy sources, including emerging trends and their environmental impacts. By the end of the course, students will have a good understanding of clean energy, nuclear advancements, and regional and national career opportunities. This course is open to all students, regardless of major.

NT 111
Basic Nuclear Math & Physics [RE] • 5.0 Credits
Introduction to basic nuclear concepts using mathematics and physics; includes concepts of dimensional analysis, algebra, geometry, trigonometry, mechanical principles, simple machines, including definitions, and basic concepts. Industrial and science applications of nuclear processes, and risk/benefit analysis are included. **Prerequisite: Acceptance into CBC's Nuclear Technology program, and a grade of 1.0 or better in MATH& 141 or a higher math class, or concurrent enrollment, or appropriate placement.**

NT 114
Introduction to Radiation Safety [RE] • 5.0 Credits
Topics include types of radiation, radioactive decay, activity, radioactive sources, and interaction of radiation with matter, radiation units, and basic fundamentals of exposure, dose, and personnel dose. The course includes an opportunity to practice basic radiation protection tasks. **Prerequisite: Students must be accepted into CBC's Nuclear Technology program prior to enrollment.**

NT 121
Reactor Plant Operations [RE] • 5.0 Credits
Introduction to the basics of reactor plant operations. Topics include: atomic theory and nuclear energy, reactor types, neutron behavior and reactivity control, major primary and secondary plant systems, and selected industry events. **Prerequisite: Students must be accepted into CBC's Nuclear Technology program prior to enrollment.**

NT 122
Basic Nuclear Facilities [RE] • 4.0 Credits
Introduction to tank farms, vitrification, and decommissioning nuclear facilities. **Prerequisite: Students must be accepted into CBC's Nuclear Technology program prior to enrollment.**

NT 131
Nuclear Facility Components [RE] • 5.0 Credits
Introduces common mechanical components and support systems used in nuclear facilities. Topics include valves and actuators, pumps, diesel engines, heat exchangers and condensers, steam turbines (including supercritical CO¿ concepts), air compressors, HVAC and the basic refrigeration cycle, steam traps and water hammer, ejectors and eductors, and demineralizers. Emphasis is placed on component purpose, basic construction, operating principles, and common operational problems supporting safe, reliable, and clean energy power production. **Prerequisite: Students must be accepted into CBC's Nuclear Technology program prior to enrollment.**

NT 141
Basic Reactor Safety, Theory, & Operations [RE] • 5.0 Credits
Introduction to the fission process, reactivity/criticality, basic reactor kinetics, heat removal, reactor types, nuclear power plant chemistry, and elementary thermodynamics. In addition, basic radiation worker training is provided in this course. **Prerequisite: A grade of 0.7 or higher in either NT 121 or NT 122.**

NT 142
Basic Nuclear Safety & Environmental Compliance [RE] • 5.0 Credits
An introduction to nuclear facility safety, accident analysis, and environmental regulations and compliance standards. **Prerequisite: A grade of 0.7 or higher in either NT 121 or NT 122.**

NT 150
Internship Seminar [RE] • 3.0 Credits
An online, self-paced course that prepares Nuclear Technology students for internships and entry-level hiring. Students learn workplace expectations and safety fundamentals, develop a resume, practice behavioral interview responses, and complete an industry experience or project that supports professional connections. **Prerequisite: Students must be accepted into CBC's Nuclear Technology program prior to enrollment.**

NT 152
Internship [RE] • 1.0–5.0 Credits
Designed to provide students with major-related, supervised, evaluated practical training work experiences with a company that uses nuclear technicians in radiation protection, nuclear reactor operations, or nuclear reactor maintenance which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on new experiences in an actual work setting.

NT 154
Industry Project [RE] • 5.0 Credits
This course is designed for students who have yet to obtain an internship in the nuclear industry. As part of the course, students will undertake an industry project in the nuclear field, applying their learned skills and training to become effective employees in the sector. The project will build upon their nuclear technology studies and deepen their understanding of working in the nuclear industry, enhancing their knowledge and experience. **Prerequisite: Students must be accepted into CBC's Nuclear Technology program prior to enrollment.**

NT 160
Nuclear Chemistry [RE] • 5.0 Credits
Designed to give students a broad understanding of nuclear chemistry. Focuses on basic reactor water chemistry fundamentals, basic material properties, brittle fracture characteristics/mechanisms, and plant material problems. **Prerequisite: Students must be accepted into CBC's Nuclear Technology program prior to enrollment.**

NT 170
Mechanical & Fluid Power Transmission [RE] • 5.0 Credits
Formerly MEC 111, NT 170
Introduction to the concepts of mechanical and fluid power transmission including principles of heat, steam, heat transfer, and fluid flow. **Prerequisite: Completion of NT 111 with a 2.0 or higher, or instructor permission.**

NT 200
Nuclear Industry Exam Preparation [RE] • 3.0 Credits
This course prepares nuclear technology students for taking multiple industry exams, which may include DOE Core Exam, POSS, or other exams as may be required by industry employers. $25 NT exam course printing fee. **Prerequisite: Students must be accepted into CBC's Nuclear Technology program prior to enrollment.**

NT 261
Nuclear Facilities Management [RE] • 5.0 Credits
This course provides students with background in managing work functions in nuclear facilities, including compliance with federal and state regulations, quality assurances, and maintenance forms and records. This class should be taken during or after the second year of study in the Nuclear Technology program. Instructor permission is required for enrollment.

NT 299
Special Topics [RE] • 1.0–5.0 Credits
A class used to explore new coursework or for a specific topic of interest. **Prerequisite: Students must be accepted into CBC's Nuclear Technology program prior to enrollment.**

Nursing

NRS 101
Basic Pharmacology Math [RE] • 1.0 Credit
Drug dosage calculations. Emphasis is on mathematic computations for various forms of drug administration utilizing metric and household measures. This course must be completed with a 2.0 or better before advancing to NRS 102, 121, and 123. **Prerequisite: Students must be admitted into CBC's Nursing program prior to enrollment.**

NRS 102
Pharmacological Classifications I [RE] • 1.0 Credit
Provides new information as well as supplements, reviews, and reinforces information previously provided on the pharmacology of drugs introduced in Nursing I. Students review drug classifications and pharmacological principles associated with medication administration while relating this information to corresponding patient diagnoses as well as understanding related nursing implications. This course must be completed with a 2.0 or better before advancing to NRS 103, 131, and 133. **Prerequisite: Completion of NRS 101, 111, and 113, all with a 2.0 or better, and concurrent enrollment in NRS 121 and 123.**

NRS 103
Pharmacological Classifications II [RE] • 1.0 Credit
Provides new information as well as supplements, reviews, and reinforces information previously provided on the pharmacology of drugs introduced in Nursing I and II. Students review drug classifications and pharmacological principles associated with medication administration while relating this information to a corresponding patient diagnoses as well as understanding the related nursing implications. **Prerequisite: Completion of NRS 102, 121, and 123, all with a 2.0 or better, and concurrent enrollment in NRS 131 and 133.**

NRS 111
Nursing I [RE] • 7.0 Credits
This is the first theoretical course in the associate degree nursing curriculum. Theoretical concepts include the fundamentals of nursing care and the introduction of the nursing process. Concepts of health needs across the lifespan; diversity, equity and inclusion; nutrition; ethics and policy; basic pharmacological principles; and beginning professional communication techniques are presented. Emphasis is on quality, safety, health maintenance, professional responsibility, and the organizations that affect the practice of nursing. $130 Nursing testing fee. **Prerequisite: Students must be admitted into CBC's Nursing program prior to enrollment.**

NRS 113
Nursing I Lab [RE] • 4.0 Credits
Formerly NRS 113
Clinical lab to be taken concurrently with NRS 111. This is the first clinical course in the associate degree curricular sequence. This course provides for the application of theoretical concepts to nursing care for adult patients in the long-term care setting. Students are introduced to basic nursing care practices. Emphasis is on therapeutic communication and application of the nursing process. $10.72 per quarter malpractice insurance fee. $21.75 nursing lab fee. **Prerequisite: Students must be admitted into CBC's Nursing program prior to enrollment.**

NRS 121
Nursing II [RE] • 5.0 Credits
This course builds on the theoretical concepts presented in NRS I. Learning experiences are directed toward increasing student knowledge

of nursing care of individuals experiencing basic alterations in health. Emphasis is on the introduction of alterations in physical and emotional health throughout the life span. The nursing process is used as a framework for the development of knowledge. Students are introduced to nursing literature. $130 Nursing testing fee. **Prerequisite: Completion of NRS 101, 111, and 113, all with a 2.0 or better.**

NRS 123
Nursing II Lab [RE] • 5.0 Credits

Formerly NRS 123

Clinical lab to be taken concurrently with NRS 121. This clinical course provides for the application of introductory theoretical concepts to the nursing care of adults and children in the acute care setting. Emphasis is on collaboration with members of the healthcare team and continued application of the nursing process in developing individualized plans of care. Nursing informatics is introduced as a method for documentation and communication. $10.72 per quarter malpractice insurance fee. $21.75 nursing lab fee. **Prerequisite: Completion of NRS 101, 111, and 113, all with a 2.0 or better.**

NRS 131
Nursing III [RE] • 5.0 Credits

This course builds on the theoretical concepts from NRS I and II. Learning experiences provide further exploration of physical illness throughout the life span. Emphasis is on alterations in gastrointestinal, cardiac, and fluid balance. Maternal child nursing concepts are introduced. There is a continued emphasis on the use of the nursing process and nursing research to plan, deliver, and evaluate nursing care. Concepts of patient education strategies are introduced through the formation of a patient teaching plan. $10.72 per quarter malpractice insurance fee. $130 Nursing testing fee. **Prerequisite: Completion of NRS 102, 121, and 123, all with a 2.0 or better.**

NRS 133
Nursing III Lab [RE] • 5.0 Credits

Formerly NRS 133

Clinical lab to be taken concurrently with NRS 131. This clinical course provides for the application of theoretical concepts to the nursing care of adults, children, and the family unit. Emphasis is on caring for multiple clients in the acute care setting and in health facilities outside the acute care model. There is expanded application of the nursing process to promote adaptation and wellness in developing individualized plans of care. $10.72 per quarter malpractice insurance fee. $21.75 nursing lab fee. **Prerequisite: Completion of NRS 102, 121, and 123, all with a 2.0 or better.**

NRS 135
Nursing Trends Lab [RE] • 1.0–2.0 Credits

Formerly NRS 135

A campus laboratory experience designed to allow nursing students to gain proficiency in nursing skills before actual practice in the acute care setting. Students enrolled in the Nursing program register for this pass/fail class quarters 1-3. $10.72 per quarter malpractice insurance fee. $21.75 nursing lab fee. Grade is pass/no credit. **Prerequisite: Students must be admitted into CBC's Nursing program prior to enrollment.**

NRS 145
First Year Clinical Elective [RE] • 6.0 Credits

This optional clinical lab course is offered to students desiring to obtain extra clinical experience before starting the second year of the Associate Degree Nursing Program. This course provides for application of theoretical concepts to the nursing care of adults and children in acute care setting. $10.72 per quarter malpractice insurance fee. Grade is pass/no credit. **Prerequisite: Completion of NRS 103, 131, and 133, all with a 2.0 or better.**

NRS 201
Pharmacological Classifications III [RE] • 1.0 Credit

Provides new information as well as supplements, reviews, and reinforces information previously provided on the pharmacology of drugs introduced in Nursing I, II, and III. Students review selected drug classifications and pharmacological principles associated with medication administration while relating this information to a corresponding patient diagnoses as well as understanding related nursing implications. This course must be completed with a 2.0 or better before advancing to NRS 221/223. **Prerequisite: Completion of NRS 103 with a 2.0 or better and concurrent enrollment in NRS 211 and 213.**

NRS 211
Nursing IV [RE] • 5.0 Credits

This theory course is the first course in the second year of the associate degree curriculum. Learning experiences are directed toward expanding the student's knowledge of nursing care of individuals experiencing alterations in health. Emphasis is on application of the nursing process in delivery of care to children and families, clients with mental health problems, and those with respiratory and immunological disorders. Concepts of evaluation of nursing research will be introduced. Continuation in the Nursing program requires a minimum cumulative 2.5 GPA in all nursing courses and a 2.0 or better in all supporting courses. $130 Nursing testing fee. **Prerequisite: Completion of NRS 103, 131, and 133, all with a 2.0 or better.**

NRS 213
Nursing IV Lab [RE] • 5.0 Credits

Formerly NRS 213

Clinical lab to be taken concurrently with NRS 211. This clinical course provides for application of theoretical concepts to the nursing care of adults and children in acute care and psychiatric settings. Emphasis is on the use of the nursing process to develop individualized plans of care for patients across the lifespan. During the psychiatric nursing rotation, emphasis is on developing interpersonal and therapeutic communication skills and caring for the mentally ill client. $10.72 per quarter malpractice insurance fee. $21.75 nursing lab fee. **Prerequisite: Completion of NRS 103, 131, and 133, all with a 2.0 or better.**

NRS 221
Nursing V [RE] • 5.0 Credits

This course builds on the theoretical concepts presented in NRS I, II, III, and IV. Learning experiences are directed toward increasing the student's knowledge of nursing care of individuals experiencing alterations in health. Emphasis is on application of the nursing process in the delivery of care to individuals experiencing complex health issues associated with neurological, cardiac, oncological, and reproductive illnesses. Concepts of advanced leadership, delegation, and research are expanded. $130 Nursing testing fee. **Prerequisite: Completion of NRS 201, 211, and 213, all with a 2.0 or better.**

NRS 222
Professional Issues I [RE] • 1.0 Credit

One-credit class providing an overview of nursing management and leadership, legal issues in nursing, job search, nursing delivery systems, and role transition issues related to moving from a nursing student to professional nursing practice. **Prerequisite: Concurrent enrollment in NRS 221 and 223 required.**

NRS 223
Nursing V Lab [RE] • 5.0 Credits
Formerly NRS 223
Clinical lab to be taken concurrently with NRS 221. This clinical course provides for application of theoretical concepts to the nursing care of adults and children in acute care and psychiatric settings. Emphasis is on implementing delegation/leadership skills and utilizing the nursing process to develop individualized plans of care for patients across the lifespan. During the psychiatric nursing rotation, emphasis is on developing interpersonal communication. $10.72 per quarter malpractice insurance fee. $21.75 nursing lab fee. **Prerequisite: Completion of NRS 201, 211, and 213, all with a 2.0 or better.**

NRS 231
Nursing VI [RE] • 5.0 Credits
This course builds on the theoretical concepts presented in NRS I, II, III, IV, and V. Learning experiences are directed toward increasing the student's knowledge of nursing care of individuals experiencing alterations in health. Emphasis is on application of the nursing process in the delivery of care to individuals experiencing complex health issues including reproductive, high risk maternal/newborn endocrine, and renal disorders and those requiring emergent care. Concepts of leadership and delegation are reinforced. $130 Nursing testing fee. **Prerequisite: Completion of NRS 222, 221, and 223, all with a 2.0 or better.**

NRS 232
Professional Issues II [RE] • 2.0 Credits
Two-credit class providing an overview of nursing management and leadership, legal, ethical and professional issues related to nursing practice, and the nurse's role in the changing healthcare environment. Students will explore multiple specialty roles within the nursing profession. **Prerequisite: Completion of NRS 222, 221, and 223, all with a 2.0 or better, and concurrent enrollment in NRS 231 and 233.**

NRS 233
Nursing VI Lab [RE] • 8.0 Credits
Formerly NRS 233
Clinical lab to be taken concurrently with NRS 231. This is the final clinical learning experience of the associate degree curriculum. This course provides for application of theoretical concepts to the care of adults and children in acute care and community settings. A preceptor experience is offered during this quarter. All students are expected to progress towards competence in thinking critically, using the nursing process, performing nursing skills, providing leadership, and delegating care at an associate degree nurse entry level. Students will also participate in various community service events. $10.72 per quarter malpractice insurance fee. $21.75 nursing lab fee. **Prerequisite: Completion of NRS 222, 221, and 223, all with a 2.0 or better.**

NRS 235
Nursing Trends Lab [RE] • 1.0 Credit
Formerly NRS 235
A campus laboratory experience designed to allow nursing students to gain proficiency in nursing skills before actual practice in acute care settings. Students enrolled in the Nursing program register for this pass/fail class quarters 4 and 5. $10.72 per quarter malpractice insurance fee. $21.75 nursing lab fee. Grade is pass/no credit. **Prerequisite: Students must be admitted into CBC's Nursing program prior to enrollment.**

NRS 299
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

NRS 301
Nursing Roles, Dimensions, and Perspectives • 3.0 Credits
Facilitates the transition of Registered Nurses with an Associate degree in Nursing to the role of a BSN graduate. Introduces students to the philosophy, theory, and roles of the professional nurse in the context of contemporary and future professional nursing practice. Analysis of social, economic, and policy issues affecting the practice of professional nursing with emphasis on strategies for advancing the profession. **Prerequisite: Students must be accepted into CBC's RN to BSN program prior to enrollment.**

NRS 305
Pharmacology • 4.0 Credits
Building on the pharmacological foundation presented at the LPN level, students review drug classifications and pharmacological principles associated with medication administration. Emphasis is placed on relating this information to corresponding patient diagnoses and understanding related nursing implications. Includes review of drug dosage calculations with emphasis on mathematic computations for various forms of drug administration utilizing metric and household measures. $130 Nursing testing fee. **Prerequisite: Students must be accepted into the LPN to BSN program at CBC prior to enrollment.**

NRS 310
The RN's Role in Holistic Health Assessment and Care • 3.0 Credits
Building on previous LPN education and practice, this courses focuses on the expanded role and responsibilities of the Registered Nurse in the assessment of health and the delivery of care. Students will examine health from different perspectives including social justice, care of self, and the practice of professional nursing using a holistic, caring approach. $130 Nursing testing fee. **Prerequisite: Students must be accepted into the LPN to BSN program at CBC prior to enrollment.**

NRS 311
Foundations Skill Lab • 2.0 Credits
This course is designed to introduce the student to science-based nursing, the nursing process, technical competencies, and the role of the registered nurse in direct patient care. Hands-on learning experiences are directed toward expanding the student's knowledge of nursing care of individuals experiencing alterations in health as well as focusing on application of the nursing process in delivery of care. $21.75 nursing lab fee. **Prerequisite: Students must be accepted into the LPN to BSN program at CBC prior to enrollment.**

NRS 315
Healthcare Informatics/Information Technology • 5.0 Credits
Formerly AG 340, AG 402, AMGT 340, AMGT 402, HCAD 315, HCAD 402, NRS 315
Provides an introduction to health information technology and to the science of informatics as applied to healthcare. Emphasis is placed on how healthcare facilities use information technology to select and utilize electronic information management systems and to integrate data from patient health records. Topics of study include: use of computer networks, system protocols and policies, data and system architecture and congruency, communication and legal issues, basic computer security and safety, mobile applications, multi-system integration, stand-alone applications, data collection methods and integrity, legal document compliance, and consistent documentation to prevent errors. This course is cross-listed with AG 402, AMGT 402, and HCAD 402. Students completing NRS 315 may not receive graduation credit for AG 402, AMGT 402, or HCAD 402. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Students must be**

accepted into CBC's RN to BSN program, or CBC's Dental Hygiene program, prior to enrollment.

NRS 320
Nursing Research and Evidence-Based Practice • 5.0 Credits
Examines the nature of inquiry, basic research concepts, language, and processes. Content in process focuses on how research contributes to the development of nursing knowledge, improves nursing practice, and enhances professional development and professional accountability. Qualitative and quantitative research methods are compared and are analyzed to enhance understanding of the research process. Legal and ethical issues are explored. Students utilize evidence based practice to guide decision-making in nursing practice. **Prerequisite: Students must be accepted into CBC's RN to BSN program prior to enrollment.**

NRS 330
Acute Care Nursing Theory I • 5.0 Credits
This is the first of three acute care courses that focuses on the development of nursing competence in planning and managing care of individuals with complex alterations in health status. Emphasis on integration of physiological, pathophysiological, psychological, and pharmacological concepts as well as the role of the social determinants of health essential to professional nursing practice. $130 Nursing testing fee. **Prerequisite: Completion of NRS 305, NRS 310, and NRS 311, all with a 2.0 or higher.**

NRS 331
Acute Care Nursing Clinical I • 4.0 Credits
This clinical course provides for application of theoretical concepts to the nursing care of adults in the acute care hospital setting. Emphasis is on the use of the nursing process to develop individualized plans of care for clients experiencing a variety of acute and chronic health alterations. $10.72 per quarter malpractice insurance fee. **Prerequisite: Completion of NRS 305, NRS 310, and NRS 311, all with a 2.0 or higher.**

NRS 332
Acute Care Nursing I Lab • 1.0 Credit
This campus laboratory course is designed to allow nursing students to gain proficiency in nursing skills. Hands-on learning experiences are directed toward expanding the student's knowledge of nursing care of individuals experiencing both acute and critical alterations in health. $21.75 nursing lab fee. **Prerequisite: Completion of NRS 305, NRS 310, and NRS 311, all with a 2.0 or higher.**

NRS 340
Acute Care Nursing Theory II • 5.0 Credits
Building on Acute Care Nursing I, this is the second of three acute care courses that focuses on the development of nursing competence in planning and managing care of individuals with complex alterations in health status. Emphasis on integration of physiological, pathophysiological, psychological, and pharmacological concepts as well as the role of the social determinants of health essential to professional nursing practice. $130 Nursing testing fee. **Prerequisite: Completion of NRS 330, NRS 331, and NRS 332, all with a 2.0 or higher.**

NRS 341
Acute Care Nursing Clinical II • 4.0 Credits
This clinical course provides for application of theoretical concepts to the nursing care of adults in the acute care hospital and psychiatric setting. Emphasis is on the use of the nursing process to develop individualized plans of care for clients experiencing a variety of acute and chronic mental and physical health alterations. During the psychiatric nursing rotation, emphasis is on development and utilization of therapeutic communication. $10.72 per quarter malpractice insurance fee. **Prerequisite: Completion of NRS 330, NRS 331, and NRS 332, all with a 2.0 or higher.**

NRS 342
Acute Care Nursing Lab II • 1.0 Credit
This campus laboratory course is designed to allow nursing students to gain proficiency in nursing skills utilized in the clinical setting. Learning experiences include advanced assessment, focused skills review, and application of both clinical and theoretical learning in the simulation environment. $21.75 nursing lab fee. **Prerequisite: Completion of NRS 330, NRS 331, and NRS 332, all with a 2.0 or higher.**

NRS 350
Population Health, Pharmacology, and Assessment • 5.0 Credits
This course builds upon the RN's knowledge of the pathophysiology of disease, pharmacologic intervention, and health assessment of an individual by examining issues that affect families and communities on a local and global scale. Emphasis is on the role of the Bachelor's-prepared RN in assessing families, communities, and populations, identifying barriers to treatment, and developing interdisciplinary solutions. Major topics include family, community, and population assessment, determinants of health, health disparities, vulnerable populations, genetics, genomics, and pharmacogenetics. **Prerequisite: Students must be accepted into CBC's RN to BSN program prior to enrollment.**

NRS 399
NCLEX Exam • 35.0 Credits
$350 NCLEX exam fee. Grade is pass/no credit.

NRS 400
Acute Care Nursing Theory III • 5.0 Credits
Building on Acute Care Nursing I & II, this is the final of three acute care courses that focuses on the development of nursing competence in planning and managing care of individuals with complex alterations in health status. Emphasis on integration of physiological, pathophysiological, psychological, and pharmacological concepts as well as the role of the social determinants of health essential to professional nursing practice. $130 Nursing testing fee. **Prerequisite: Completion of NRS 340, NRS 341, and NRS 342, all with a 2.0 or higher.**

NRS 401
Acute Care Clinical Preceptorship • 5.0 Credits
This is the final clinical learning experience of the LPN to BSN degree curriculum. This course provides for application of theoretical concepts to the care of adults and children in acute care and community settings utilizing a preceptorship model. All students are expected to progress towards competence in thinking critically, using the nursing process, performing nursing skills, providing leadership, and delegating care at a bachelor degree nurse entry level. $10.72 per quarter malpractice insurance fee. **Prerequisite: Completion of NRS 340, NRS 341, and NRS 342, all with a 2.0 or higher.**

NRS 410
Nursing Leadership and Management • 5.0 Credits
Enables students to practice within complex heathcare systems and to assume the roles of provider of care; designer/manager/coordinator of care; and member of a diverse and global health care environment. Major topic areas include: provision of complex systems, change theory, conflict management, conflict resolution strategies, negotiation, relationship building, group roles/group dynamics, and concepts of teamwork. Management and organizational theories and concepts are studied,

evaluated, and applied. **Prerequisite: Students must be accepted into CBC's RN to BSN program prior to enrollment.**

NRS 420
Populations and Global Health Nursing • 3.0 Credits
This course examines nursing as part of the larger healthcare delivery system. Emphasis is on identification of cultural, social, political, and epidemiological factors related to health, illness, health promotion, and disease prevention that impact local, national, and global healthcare. **Prerequisite: Students must be accepted into CBC's RN to BSN program prior to enrollment.**

NRS 421
Populations and Global Health Nursing Practicum • 2.0 Credits
This course presents clinical concepts of community health nursing and the multiple determinants of health in local healthcare settings. Students participate in selected clinical based activities in various community agencies as interdisciplinary provider, designer, and manager in the process to provide competent care, promote health protection, and provide assistance with health maintenance and restoration to a diverse population within the community. $10.72 per quarter malpractice insurance fee. **Prerequisite: Students must be accepted into CBC's RN to BSN program prior to enrollment.**

NRS 460
Leadership Capstone • 2.0 Credits
In collaboration with a nursing faculty and clinical preceptor, students plan and implement an evidence-based project consistent with the professional leadership role. Students use critical thinking skills and evidence-based practice to promote patient-centered nursing in a complex healthcare environment. This course culminates with an evidence-based project that is presented to peers and the community. $10.72 per quarter malpractice insurance fee. **Prerequisite: Students must be accepted into CBC's RN to BSN program prior to enrollment.**

NRS 499
Guided NCLEX Prep • 1.0 Credit
Focused review of the theoretical concepts presented throughout the pre-licensure nursing curriculum. Learning experiences are guided by focused Kaplan review tests and associated remediation in preparation for the national nursing licensure examination. $130 Nursing testing fee. **Prerequisite: Completion of NRS 400 and NRS 401, both with a 2.0 or higher.**

Nursing Assistant

NA 100
Nursing Assistant [RE] • 4.0 Credits
This course leads to the ability of those completing the course to become eligible for testing as a Nursing Assistant Certified. The course covers communication and interpersonal skills, infection control, safety and emergency procedures, promoting resident independence, respecting resident rights, basic nursing skills, personal care skills, mental health and social services needs, care of the cognitively impaired resident, basic restorative care, resident rights, HIPAA, First Aid and CPR for the healthcare provider, seven hours of HIV/AIDS Bloodborne Pathogens training, dementia, and cultural awareness. Concurrent enrollment into NA 102 lab is required. Students are required to demonstrate competencies in skills associated with each of the course subjects within the laboratory or clinical setting. $10.72 per quarter malpractice insurance fee. **Prerequisite: This is a selective admission program. Students must apply and be accepted into CBC's Nursing Assistant program prior to enrolling.**

NA 102
Nursing Assistant Lab [RE] • 4.0 Credits
Formerly NA 102
This course provides competencies in skills for laboratory and clinical requirements for the Nursing Assistant lecture course. Students are involved in on-campus learning laboratory experiences as well as clinical rotations within community health facilities. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: This is a selective admission program. Students must apply and be accepted into CBC's Nursing Assistant program prior to enrolling.**

Nutrition & Food Science

NUTR& 101
Nutrition [M/S] • 5.0 Credits
Formerly NFS 111, NUTR& 101
Principles of nutrition as they apply to macro-nutrients. Economic, cultural, and psychological influences are considered. The need for vitamins, minerals, and special nutritional requirements at different stages of the lifecycle and special topics of current concern are included. $25 science fee.

Occupational Safety & Health Technology

OSH 101
Fundamentals of Occupational Safety & Health [RE] • 5.0 Credits
Formerly IHST 101, OSH 101
This course covers the fundamental aspects of occupational safety and health practices and how they are related to applicable standards, risk management, performance metrics, hazard recognition/controls, industrial hygiene, environmental management, fire safety, systems safety, ergonomics, hazardous materials, fleet safety, emergency management, and accident investigation. $5 per credit Industrial Health & Safety fee. **Prerequisite: A grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

OSH 124
Industrial and Construction Safety Regulations [RE] • 5.0 Credits
Formerly IHST 124, OSH 124
This course is a study of OSHA regulations for construction and general industry, and WISHA standards and regulations. Students will develop an understanding of safety management, project incorporation of safety, and subcontractor management. Topics covered include: excavation, fall protection, scaffolding, equipment operation, steel erection, cranes, and electrical. $5 per credit Industrial Health & Safety fee.

OSH 147
Ethics, Documentation, and Records [RE] • 5.0 Credits
Formerly IHST 147, OSH 147
Safety and health professionals face potential legal and ethical issues on an almost daily basis. In a landscape of changing responsibilities and new laws, they often make difficult decisions that can result in the creation of legal issues and liabilities for themselves and their companies. This course will explore issues in criminal liability for individuals and corporations under the OSHA Act and state criminal codes. $5 per credit Industrial Health & Safety fee.

OSH 151
Accident Prevention, Inspection & Investigations [RE] • 5.0 Credits
Formerly IHST 151, OSH 151
This course provides a review of accident investigation methodologies that include accident response, evidence collection, analysis techniques, and developing and communicating recommendations to prevent recurrence. It includes drug/alcohol testing, claims management, return to work/rehabilitation programs, and preparation for lawsuits and deposition. $5 per credit Industrial Health & Safety fee.

OSH 152
Internship [RE] • 1.0–5.0 Credits
Formerly IHST 152, OSH 152
Designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on new experiences in an actual work setting. $5 per credit Industrial Health & Safety fee. Grade is pass/no credit.

OSH 153
Risk Management [RE] • 5.0 Credits
Formerly IHST 153, OSH 153
This course is an examination of risk management principles in the context of safety and health management. Strategies and tactics for reducing workplace hazards are presented through a review of best practices and principles balanced by an organization's use of opportunistic and speculative risks. $5 per credit Industrial Health & Safety fee.

OSH 177
Industrial Chemical Safety & Hazards [RE] • 5.0 Credits
Formerly IHST 177, OSH 177
A systematic analysis of how hazardous materials escalate an incident or emergency event. This course includes examination of the basic fundamental concepts common to hazardous chemicals with an emphasis on how some key elements, compounds, and mixtures are inherently dangerous. $5 per credit Industrial Health & Safety fee.

OSH 230
Industrial Toxicology [RE] • 5.0 Credits
Formerly IHST 230, OSH 230
This course is an exploration of the basic principles associated with the toxic effects of chemicals on the living organism while examining the regulatory aspects and applications of toxicology in the workplace. Among the topics covered are the potential adverse effects of drugs, pesticides, food additives, and industrial chemicals. $5 per credit Industrial Health & Safety fee.

OSH 231
Biological Hazards [RE] • 5.0 Credits
Formerly IHST 231, OSH 231
This course is intended to familiarize students with a range of biological hazards that may be encountered in community and work environments, including commercial, non-industrial, industrial and healthcare settings, with emphasis on the methods occupational hygienists use to recognize, evaluate, and control microbiological hazards. $5 per credit Industrial Health & Safety fee.

OSH 233
Fire Protection Systems [RE] • 5.0 Credits
Formerly IHST 233, OSH 233
This course is an in-depth study of flammables, combustibles, and their relation to fire prevention. It includes hazard analysis and assessment of establishments relating to the prevention and control of fires, understanding the types of extinguishing systems and the hazards associated with each, and emergency response and evacuation plans. $5 per credit Industrial Health & Safety fee.

OSH 235
Physical Hazards [RE] • 5.0 Credits
Formerly IHST 235, OSH 235
This course is a study of the physical hazards in industry and the methods of workplace design and redesign to control these hazards. Emphasis is on the regulation codes and standards associated with the control of physical hazards. $5 per credit Industrial Health & Safety fee.

OSH 271
Fundamentals of Industrial Hygiene [RE] • 4.0 Credits
Formerly IHST 271, OSH 271
This course is an introduction to the basics of industrial hygiene that includes the anticipation, recognition, evaluation, and control of workplace environmental stressors (chemical, physical, and biological) that can impact the health, comfort, or productivity of the worker. $5 per credit Industrial Health & Safety fee.

OSH 272
Ergonomics [RE] • 5.0 Credits
Formerly IHST 272, OSH 272
This course covers the principles and practices of ergonomics as it applies to the industrial and construction environment. It demonstrates how to collect data on users and operators and how to convert the data to good workplace design. $5 per credit Industrial Health & Safety fee.

OSH 274
Safety Program Management [RE] • 5.0 Credits
Formerly IHST 274, OSH 274
This course includes a study of accident cost analysis, recordkeeping standards, reporting, job safety analysis, fundamentals of safety training, and safety management system requirements, training, and implementation. $5 per credit Industrial Health & Safety fee.

OSH 277
Environmental Management [RE] • 5.0 Credits
Formerly IHST 277, OSH 277
This course is an overview of the theories, processes, and applications of natural and technological hazards from a geographic perspective. Topics involve investigation beyond the basic physical processes to include mitigation strategies and emergency management considerations. Some of the subjects include earthquakes, volcanoes, wildfires, floods, tornadoes, hurricanes, winter storms, oil spills, chemical releases, and environmental terrorism. $5 per credit Industrial Health & Safety fee.

OSH 280
Industrial Instrumentation and Equipment [RE] • 5.0 Credits
Formerly IHST 280, OSH 280
This course is an overview of the basic instrumentation used for industrial hygiene readings to include theory of operation, interferences, limitations, proper usage for Direct Reading Instruments (DRIs), Volatile Organic Compound (VOC) Meters, noise measuring, light measuring, heat stress instruments, and miscellaneous monitoring equipment as well as the use of sample pumps and media for source, area, and personal data gathering. $5 per credit Industrial Health & Safety fee.

Paramedic

PMD 201
Paramedic I [RE] • 6.0 Credits
This course is intended to prepare the paramedic student in the areas of medical, legal, ethics, roles and responsibilities, principles of pathophysiology, pharmacology, intravenous access, and medication administration. This course follows the 2012 WA State EMS Education Standards for Paramedic as well as the National EMS Education Standard Instructional Guidelines for Paramedics. It is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic exam. $124 FISDAP course fee. $11.40 lab fee. **Prerequisite: Acceptance into the Paramedic program.**

PMD 202
Paramedic II [RE] • 6.0 Credits
This course is intended to train students in the areas of advanced airway management, physical assessment, fieldassessment, clinical decision-making, documentation, and the assessment and management of respiratory emergencies. This course follows the 2012 WA State EMS Education Standards for Paramedic as well as the National EMS Education Standard Instructional Guidelines for Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic Exam. **Prerequisite: Completion of PMD 201 and PMD 210 with a grade of 2.0 or better.**

PMD 203
Paramedic III [RE] • 6.0 Credits
This course in the Paramedic sequence provides skills and knowledge necessary to assess and manage medical emergencies specifically: cardiac, neurological, and endocrine emergencies as well as allergies and anaphylaxis. At the completion of this course, students are certified in ACLS. This course follows the 2012 WA State EMS Education Standards for Paramedic as well as the National EMS Education Standard Instructional Guidelines for Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic Exam. **Prerequisite: Completion of PMD 204 and PMD 240 with a grade of 2.0 or better.**

PMD 204
Paramedic IV [RE] • 6.0 Credits
This course in the Paramedic sequence provides skills and knowledge necessary to assess and manage trauma emergencies, specifically: mechanism of injury, soft tissue and burn injuries, as well as head, neck, chest, abdominal, and other musculoskeletal trauma. At the successful completion of this course, students are certified in PHTLS. This course follows the 2012 WA State EMS Education Standards for Paramedic as well as the National EMS Education Standard Instructional Guidelines for Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic Exam. At the end of this course, the areas of neonate and pediatric care will begin, with completion in PMD 205. **Prerequisite: Completion of PMD 202 and PMD 220 with a grade of 2.0 or better.**

PMD 205
Paramedic V [RE] • 6.0 Credits
This course in the Paramedic sequence provides skills and knowledge necessary to assess and manage special emergencies with neonates, pediatrics, childbirth, geriatrics, behavioral emergencies, as well as abuse, and assault. At the completion of this course, students are certified in PALS. This course follows the 2012 WA State EMS Education Standards for Paramedic as well as the National EMS Education Standard Instructional Guidelines for Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic Exam. **Prerequisite: Completion of PMD 203 and PMD 230 with a grade of 2.0 or better.**

PMD 206
Paramedic VI [RE] • 6.0 Credits
This course provides skills and knowledge necessary to assess and manage emergencies of a gastrointestinal, urological, toxicological, or environmental nature. It additionally reviews special considerations of mass casualty, hazardous materials, rescue, and crime scene awareness. At the completion of this course, students complete a term paper and oral presentation. This course follows the 2012 WA State EMS Education Standards for Paramedic as well as the National EMS Education Standard Instructional Guidelines for Paramedics, and is designed to give students the foundation to continue training to become eligible to take the National Registry EMT-Paramedic Exam. Students continue the field/ambulance clinical competencies. **Prerequisite: Completion of PMD 205 and PMD 250 with a grade of 2.0 or better.**

PMD 210
Paramedic I Lab [RE] • 2.0 Credits
Lab to be taken concurrently with PMD 201. Introduces students to the policies and procedures of the field and hospital internship sites where students begin in same-day surgery performing IVs on patients preparing for surgical procedures. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Acceptance into the Paramedic program.**

PMD 220
Paramedic II Lab [RE] • 3.0 Credits
Lab to be taken concurrently with PMD 202. The lab portion of the course introduces students to the policies and procedures of the field and hospital internship sites where they continue to work on their minim um competencies in same-day surgery, operating room, emergency department, as well as beginning their field/ambulance experience. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Completion of PMD 201 and PMD 210 with a grade of 2.0 or better.**

PMD 230
Paramedic III Lab [RE] • 3.0 Credits
Lab to be taken concurrently with PMD 203. The lab portion of this course introduces students to the policies and procedures of the field and hospital internship sites where they continue to work on their minimum competencies in the operating room, emergency department, respiratory therapy, cardiac catheterization lab, and the intensive care units. Students continue the field/ambulance clinical competencies. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Completion of PMD 204 and PMD 240 with a grade of 2.0 or better.**

PMD 240
Paramedic IV Lab [RE] • 3.0 Credits
Lab to be taken concurrently with PMD 204. The lab portion of this course introduces students to the policies and procedures of the field and hospital internship sites where they continue to work on their minimum competencies in the emergency department, respiratory therapy, cardiac catheterization lab, and the intensive care units. Students continue the field/ambulance clinical competencies. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Completion of PMD 202 and PMD 220 with a grade of 2.0 or better.**

PMD 250
Paramedic V Lab [RE] • 3.0 Credits
Lab to be taken concurrently with PMD 205. The lab portion of this course introduces the students to the policies and procedures of the field and hospital internship sites where they continue to work on their minimum competencies in the emergency department, respiratory therapy, cardiac catheterization lab, intensive care units, pediatrics, neonate intensive care unit, obstetrics unit, and psychiatric rotations. Students continue the field/ambulance clinical competencies. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Completion of PMD 203 and PMD 230 with a grade of 2.0 or better.**

PMD 260
Paramedic VI Lab [RE] • 3.0 Credits
Lab to be taken concurrently with PMD 206. The lab portion of the course focuses on the completion of hospital internship where students continue to work on their minimum competencies in the emergency department, respiratory therapy, cardiac catheterization lab, intensive care units, pediatrics, neonate intensive care unit, obstetrics unit, psychiatric rotations, and field internship. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Completion of PMD 205 and PMD 250 with a grade of 2.0 or better.**

PMD 270
Extended Paramedic Internship [RE] • 1.0–3.0 Credits
This extension course is provided to current paramedic students who are working to complete field and/or hospital internship requirements as required by the program. This course follows the 2012 WA State EMS Education Standards for Paramedic as well as the National EMS Education Standard Instructional Guidelines for Paramedics, and allows students to complete all requirements and to become eligible to take the National EMT-P Certification Exam. $11.40 lab fee. $10.72 malpractice insurance fee. Grade is pass/no credit.

Philosophy

PHIL& 101
Intro to Philosophy [H] • 5.0 Credits
Formerly PHI 101, PHIL& 101
A study of the fundamental questions concerning humans and the universe that recur in the history of their thoughts, religion, knowledge, reality, and morality.

PHIL 106
Introduction to Logic [H] • 5.0 Credits
Formerly PHI 120, PHIL 106, PHIL& 106
A study of the principles of formal and informal thinking: induction, deduction, and language.

PHIL& 120
Symbolic Logic [Q/SR] • 5.0 Credits
A study of the principles of formal thinking, which includes an analysis of symbolic theory within a context that encourages the development of logical skills. **Prerequisite: A grade of 2.0 or better in MATH 50, 70, or 72, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

PHIL 131
World Religions [H] • 5.0 Credits
Formerly PHI 131, PHIL 131
A survey of the major religious systems of the world, including Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam.

PHIL 150
Introduction to Ethics [H] • 5.0 Credits
Formerly PHI 150, PHIL 150
An introduction to moral concepts; their assumptions, arguments, implications, and practices. Special consideration is given to topics in the area of medicine, business, war, individual rights, and the future.

PHIL 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

PHIL 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

PHIL 305
Professional Ethics [H] • 5.0 Credits
This course examines the role of ethics and social responsibility in the management of public and private sector organizations and businesses. An emphasis is on contemporary trends in corporate responsibilities with respect to ethical, legal, economic, and regulatory conditions in the global marketplace. The use of the case study approach is applied to a contemporary business ethical issue. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

PHIL 315
Professional Ethics In Healthcare [H] • 5.0 Credits
This course examines the role of ethics and social responsibility in the management of public and private healthcare organizations. Topics to be explored include the nature of morality, normative theories of ethics, justice and economic distribution as it relates to healthcare and healthcare-funded programs; the impact of technology on ethics in healthcare; and ethical situations in patient care. This course also examines practical applications of ethical theories in the context of real world scenarios, delving into the "hard work" of maintaining an ethical backbone through the steadfast commitment necessary to maintain accountability and integrity in the workplace. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

Phlebotomy

PHLEB 100
Phlebotomy I [RE] • 5.0 Credits
This course introduces the fundamental principles and techniques of phlebotomy. Through a combination of lectures and hands-on laboratory practice, students will learn essential skills in venipuncture, capillary puncture, and specimen handling. Topics include the anatomy of the circulatory system, infection control, safety procedures, patient interaction, and professional ethics in the healthcare environment. Students will also explore the importance of quality assurance and legal considerations in phlebotomy. This course prepares students for real-world clinical experiences by building a solid foundation of knowledge and skills necessary for success in the healthcare field. $11.40 lab fee. **Prerequisite: Acceptance into the Phlebotomy program.**

PHLEB 101
Phlebotomy Clinical [RE] • 3.0 Credits
This course provides students with hands-on, supervised clinical experience in a variety of medical settings. Within the clinical setting, students will apply their classroom and laboratory knowledge in real-

world environments, practicing venipuncture, specimen handling, patient interaction, and other essential phlebotomy skills. Clinical placements are arranged by the instructor, and students are expected to accommodate the operating hours of their assigned facility. $10.72 per quarter malpractice fee. **Prerequisite: Acceptance into the Phlebotomy program.**

Physical Education

PE 110
Aerobics Step Training I [PE] • 1.0 Credit
A low-impact exercise program that involves stepping up and down on a platform of adjustable height to the accompaniment of music, leading to improved cardiovascular conditioning, as well as lower body endurance and strength. $11.40 lab fee.

PE 111
Aerobics Step Training II [PE] • 1.0 Credit
Continued study and involvement offering a greater level of conditioning through the use of more intense training techniques involved with step training. $11.40 lab fee.

PE 112
Aerobic Dance I [PE] • 1.0 Credit
Dance steps and routines rigorously executed to increase cardiovascular rate, leading to figure trimming and toning. Records on improvements in pulse rates and pulmonary recovery are kept. $11.40 lab fee.

PE 113
Aerobic Dance II [PE] • 1.0 Credit
Continued study and advanced techniques of this activity. Dance steps and routines executed to increase cardiovascular rate. Students test and record improvements in pulse rates and pulmonary recovery. $11.40 lab fee. **Prerequisite: Completion of PE 112 with a 0.7 or higher.**

PE 114
Aerobic Dance III [PE] • 1.0 Credit
Advanced study in this activity. Dance steps and routines rigorously executed for improving cardiovascular rate and leading to figure trimming and toning. Improvements are tested and recorded. $11.40 lab fee. **Prerequisite: Completion of PE 113 with a 0.7 or higher.**

PE 115
Body Mechanics [PE] • 1.0 Credit
This course involves special exercise and calisthenics which enhance total fitness, figure improvement, body toning, weight control, and posture. $11.40 lab fee.

PE 116
Pilates [PE] • 1.0 Credit
An introductory course to Pilates emphasizing physical exercises, breathing, core strength and stability, and muscle awareness. $11.40 lab fee.

PE 117
Yoga I [PE] • 1.0 Credit
An introductory course to Hatha Yoga emphasizing physical exercises, breathing exercises, and meditation practice. $11.40 lab fee.

PE 118
Step Aerobic Interval Training [PE] • 1.0 Credit
Using intervals of high intensity exercise followed by recovery periods, this class combines high and low intensity exercises performed on the floor as well as on the step. Aerobic exercise, power moves, step training, light weight training, and body resistance are used to introduce students to the benefits of an interval training program. Greater cardiovascular strengthening as well as muscular strengthening and endurance are introduced and practiced in this class. $11.40 lab fee.

PE 119
Yoga II [PE] • 1.0 Credit
A continuation course to a Hatha Yoga practice including intermediate physical poses, yoga breathing exercises, and selected meditations. $11.40 lab fee.

PE 120
Weight Training I [PE] • 1.0 Credit
Students are exposed to theories of weight training. Emphasis is placed on strength development, muscular endurance, and flexibility. Students design an individual program with the use of free weights and multi-station machines. $11.40 lab fee.

PE 121
Weight Training II [PE] • 1.0 Credit
An intermediate program with students designing their individual workout program. $11.40 lab fee.

PE 122
Weight Training III [PE] • 1.0 Credit
An advanced program with the student designing her/his individual workout program. $11.40 lab fee.

PE 135
Golf Swing Analysis Strategies [PE] • 2.0 Credits
A comprehensive study of the individual parts of the modern golf swing with intensive training directed toward precise control and more power. $50 Golf course fee.

PE 140
Softball I [PE] • 1.0 Credit
Softball I is designed for the beginning softball player. This course offers instruction of basic skills and rules of softball. Skills and knowledge of rules are tested. $11.40 lab fee.

PE 141
Softball II [PE] • 1.0 Credit
Designed for the intermediate softball player. Additional work of strategy, individual, and team offensive/defensive techniques are taught. Skills and knowledge of rules are tested. $11.40 lab fee. **Prerequisite: Completion of PE 140 with a 0.7 or higher.**

PE 142
Softball III [PE] • 1.0 Credit
Designed for the advanced softball player. Additional work of strategy, individual, and team offensive/defensive techniques are taught. Skills and knowledge of rules are tested. $11.40 lab fee. **Prerequisite: Completion of PE 140 and PE 141 both with a 0.7 or higher.**

PE 145
Soccer I [PE] • 1.0 Credit
Basic individual skills are presented and developed. The international rules are emphasized and a physical conditioning program designed to prepare the student for play is implemented. $11.40 lab fee.

PE 146
Soccer II [PE] • 1.0 Credit
Soccer II is designed for the intermediate player. Review of the basic skills taught in the beginning course. Additional work on strategy, defensive techniques. $11.40 lab fee. **Prerequisite: Completion of PE 145 with a 0.7 or higher.**

PE 147
Soccer III [PE] • 1.0 Credit
Soccer III is designed for the advanced player. Advanced strategy, team defensive, and team offensive techniques are taught. Skills and rules are tested. $11.40 lab fee. **Prerequisite: Completion of PE 146 with a 0.7 or higher.**

PE 148
Jogging I [PE] • 1.0 Credit
Provides cardiovascular improvement, burns body fat, and builds lifetime skills in aerobic fitness. Emphasis on stretching, safety, motivation, and enjoying jogging. Offered for the beginning jogger or walker through the competitive runner. $11.40 lab fee.

PE 152
Badminton I [PE] • 1.0 Credit
Introduces the fundamental skills, rules, and strategies of badminton. Covers basic techniques and etiquette of both singles and doubles play. Allows students to enjoy badminton as a lifetime activity. $11.40 lab fee.

PE 160
Basketball I [PE] • 1.0 Credit
Beginning skills and strategy, this class is suitable for anyone with a desire to learn the basics of the game, with emphasis on rules and court procedure. $11.40 lab fee.

PE 161
Basketball II [PE] • 1.0 Credit
Students expand their knowledge of the skills of basketball, and additional skills are introduced. Team strategy at a more advanced level is emphasized. $11.40 lab fee. **Prerequisite: Completion of PE 160 with a 0.7 or higher.**

PE 162
Basketball III [PE] • 1.0 Credit
Review of advanced basketball skills. Introduction of offensive patterns, defensive sets, and individual style of play. This class also involves usage of fast break and the transition game. $11.40 lab fee. **Prerequisite: Completion of PE 161 with a 0.7 or higher.**

PE 163
Volleyball I [PE] • 1.0 Credit
Covers basic skills, court positions, and strategies for beginning sets along with 4-2 and 5-1 offenses. $11.40 lab fee.

PE 164
Volleyball II [PE] • 1.0 Credit
A continuation of Volleyball I. Intermediate skills, defensive strategies, play sets, and how to play doubles and triples volleyball. $11.40 lab fee. **Prerequisite: Completion of PE 163 with a 0.7 or higher.**

PE 165
Volleyball III [PE] • 1.0 Credit
Emphasis is on team plan and interaction using and applying all volleyball skills. $11.40 lab fee. **Prerequisite: Completion of PE 164 with a 0.7 or higher.**

PE 172
Bowling I • 1.0 Credit
Course is structured to allow the individual to acquire and use proper bowling forms. Students learn to eliminate errors in techniques, follow rules, compute handicaps, and keep scores. $11.40 lab fee.

PE 182
Adaptive Pe Lab [PE] • 1.0 Credit
Lab to be taken concurrently with PE 180. $11.40 lab fee.

PE 183
Pickleball [PE] • 1.0 Credit
Introduces basic knowledge and skills to play pickleball such as forehand, backhand, groundstrokes, volleys, and serves as well as the rules and strategies for singles and doubles play. $11.40 lab fee.

PE 184
Pickleball II [PE] • 1.0 Credit
A continuation from Pickleball I advancing the knowledge and skills to play pickleball such as forehand, backhand, groundstrokes, volleys, and serves as well as the rules and strategies for singles and doubles play. $11.40 lab fee. **Prerequisite: Completion of PE 183 with a grade of 1.0 or better.**

PE 185
Pickleball III [PE] • 1.0 Credit
A continuation from Pickleball II advancing the knowledge and skills to play pickleball such as forehand, backhand, groundstrokes, volleys, and serves as well as the rules and strategies for singles and doubles play. $11.40 lab fee. **Prerequisite: Completion of PE 184 with a grade of 1.0 or better.**

PE 187
Baseball I [PE] • 1.0 Credit
Introduces students to basic skills of baseball. Students are given instruction in all phases of the game, with main purpose being to gain an understanding of fundamentals. $11.40 lab fee.

PE 188
Baseball II [PE] • 1.0 Credit
Students expand their knowledge of the skills of baseball taught at the beginning level. Team strategy is taught at a more advanced level. $11.40 lab fee. **Prerequisite: Completion of PE 187 with a 0.7 or higher.**

PE 189
Baseball III [PE] • 1.0 Credit
Advanced level of skills are taught, and theory of baseball strategy is introduced in all phases of the game. Specific drills are used for development of specialized skills. $11.40 lab fee. **Prerequisite: Completion of PE 188 with a 0.7 or higher.**

PE 190
Cardio Kickboxing I [PE] • 1.0 Credit
This course involves the study and implementation of martial art style kicks and punches, along with exercises to enhance flexibility, cardiovascular endurance, and increased stamina. $11.40 lab fee.

PE 198
Special Studies • 1.0–15.0 Credits
An experimental class to be used to explore new approaches and applications to Physical Education. $11.40 lab fee.

PE 199
Special Studies • 1.0–15.0 Credits
An experimental lab class to be used to explore new approaches and applications to Physical Education. $11.40 lab fee.

PE 203
Badminton II [PE] • 1.0 Credit
A continuation from Badminton I advancing the skills, rules, and strategies of badminton. Covers basic techniques and etiquette of both singles and doubles play. Allows students to enjoy badminton as a lifetime activity. $11.40 lab fee. **Prerequisite: Completion of PE 152 with a 1.0 or better.**

PE 204
Badminton III [PE] • 1.0 Credit
A continuation from Badminton II advancing the skills, rules, and strategies of badminton. Covers basic techniques and etiquette of both singles and doubles play. Allows students to enjoy badminton as a lifetime activity. $11.40 lab fee. **Prerequisite: Completion of PE 203 with a 1.0 or better.**

PE 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $11.40 lab fee.

Physical Education Professional

PEC 135
Swing Analysis and Strategies • 2.0 Credits
A comprehensive study of the individual parts of the modern golf swing with intensive training directed toward precise control and more power. Class meets at Golf Land, Argent & Rd. 42 in Pasco. $11.40 lab fee.

PEC 235
Fundamentals of Basketball • 2.0 Credits
History, fundamentals, practice organization, method of instruction, game preparation, and player evaluation are the main topics for instruction.

PEC 236
Fundamentals of Volleyball • 2.0 Credits
An introductory course in the history and development of power volleyball. It is also a study of the basic skills and organization of offensive and defensive strategies.

PEC 242
Theory of Basketball • 2.0 Credits
Advanced concepts and theory in basketball coaching and continuation of fundamentals of basketball supply students with up-to-date information concerning fundamentals, practice organization, game preparation, and player evaluation. **Prerequisite: Completion of PEC 235 with a 0.7 or higher.**

PEC 243
Theory of Volleyball • 2.0 Credits
Theory of volleyball for prospective coaches and advanced players with the aspects of philosophy, psychology, methods, and organization.

Physics

PHYS 102
Physics of Everyday Experience [M/S] • 5.0 Credits
Designed for non-science majors, this course is a practical introduction to physics and science in everyday life. Lecture demonstrations are used to illustrate physics that we experience in everyday life such as motion, sports, energy and power, gravity and planetary motion, fluids, pressure, aerodynamics, waves, sounds and music, musical instruments, temperature and heat, engines, electricity, lightning, house hold electric circuits, magnets, electric generators, light and colors, images, laser, nuclear energy, radioactivity, and medical imaging technology. This is a lecture only class with no associated lab. $25 science fee. **Prerequisite: A grade of 2.0 or better in either MATH 40 or ABE 52, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

PHYS& 110
Physics for Non-Science Majors W/ Lab [M/S] • 5.0 Credits
Formerly PHY 100, PHYS& 100, PHYS& 101, PHYS& 110
Introduces the principles and concepts of physics using elementary algebraic procedures. Selected topics from classical and modern physics. Primarily for the non-science major. $25 science fee. **Prerequisite: A grade of 2.0 or better in MATH 50, 60, or 62, or a grade of 0.7 or better in a higher math class, or appropriate placement.**

PHYS& 114
General Physics I W/ Lab [M/S] • 5.0 Credits
Formerly PHY 105, PHYS& 114, PHYS& 121, PHYS& 124, PHYS& 131, PHYS& 134
This course is designed for those students that are not majoring in a four-year engineering or physical science degree. Topics include measurement and units, vectors, motion in one and two dimensions, Newton's laws, work and energy, momentum and collisions, circular motion, gravity, and rotational motion. $25 science fee. **Prerequisite: Completion of one of the following math courses with a grade of 2.0 or better: MATH 113, MATH& 142, MATH& 152, or MATH& 153, or appropriate placement.**

PHYS& 115
General Physics II W/ Lab [M/S] • 5.0 Credits
Formerly PHY 106, PHYS& 115, PHYS& 122, PHYS& 125, PHYS& 132, PHYS& 135
Solids and fluids, thermal physics, laws of thermodynamics, electric forces and fields, electrical energy, DC circuits, magnetic forces and fields, electromagnetic induction, and AC circuits. $25 science fee. **Prerequisite: Completion of PHYS& 114 with a 2.0 or better.**

PHYS& 116
General Physics III W/ Lab [M/S] • 5.0 Credits
Formerly PHY 107, PHYS& 116, PHYS& 123, PHYS& 126, PHYS& 133, PHYS& 136
Oscillations and waves, electromagnetic waves, geometric optics, physical optics, optical instrument, quantum physics, atomic physics, and nuclear physics. $25 science fee. **Prerequisite: Completion of PHYS& 115 with a 2.0 or better.**

PHYS 199
Special Studies • 1.0–5.0 Credits
A class used to explore new coursework. $25 science fee.

PHYS& 221
Engineering Physics I W/ Lab [M/S] • 5.0 Credits
Formerly PHY 201, PHYS& 221, PHYS& 231, PHYS& 241
The first quarter of a three-quarter sequence in calculus-based physics for science and engineering students. The course covers topics in mechanics, including kinematics of motion, force, work, energy, momentum, and kinematics and kinetics of rotation. $25 science fee. **Prerequisite: A grade of 2.0 or better in MATH& 151, or a grade of 0.7 or better in a higher math class.**

PHYS& 222
Engineering Physics II W/ Lab [M/S] • 5.0 Credits
Formerly PHY 202, PHYS& 222, PHYS& 232, PHYS& 242
The second quarter of a three-quarter sequence in calculus-based physics for science and engineering students dealing with the topics of Gravity, Fluids, and Electromagnetism. $25 science fee. **Prerequisite: Completion of MATH& 152 with a 2.0 or better, or a higher math class with a 0.7 or better, and PHYS& 221 with a 2.0 or better.**

PHYS& 223
Engineering Physics III W/ Lab [M/S] • 5.0 Credits
Formerly PHY 203, PHYS& 223, PHYS& 233, PHYS& 243
The third quarter of a three-quarter sequence in calculus-based physics for science and engineering students dealing with the topics of Oscillations and Waves, Thermodynamics, Electromagnetic Waves, Light, and Optics. $25 science fee. **Prerequisite: Completion of PHYS& 222 with a 2.0 or better.**

PHYS 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. $25 science fee.

Political Science

POLS 104
State and Local Government [S/B] • 5.0 Credits
Formerly POLS 104, PS 104
An examination of federal, state, and local government relationships; state executive, legislative, judicial, and political party systems; and forms of local governmental units.

POLS 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

POLS& 201
Intro Political Theory [S/B] • 5.0 Credits
Formerly POLS& 201, PS 150
An introduction to fundamental concepts and theories in political science, this course uses classic and contemporary works of political thought to deal with basic issues in the study of politics, such as who should rule, political rights, and the nature and limits of political authority.

POLS& 202
United States Government [S/B] • 5.0 Credits
Formerly POLS& 202, PS 100
A survey of the system and process of the United States national politics and government; including the structure and function of the executive, legislative, and judicial branches, and the U.S. political party system.

POLS& 203
International Relations [S/B] • 5.0 Credits
Formerly POLS& 203, PS 103
An examination of various theoretical approaches to international politics, causes of war, approaches to peace, and sources of conflict in the contemporary world.

POLS& 204
Comparative Government [S/B] • 5.0 Credits
Formerly POLS& 204, PS 101
A comparative study of the development and transformation of western democratic, communist, and third world political systems and processes.

POLS 205
American Political Thought [S/B] • 5.0 Credits
Formerly POLS 205, PS 151
Examines through classical and contemporary texts the crucial, ethical, and philosophical issues that shaped the founding and continues to be debated up to the modern day.

POLS 280
Race and Law in the U.S.[S/B] • 5.0 Credits
Race and ethnicity continue to play a significant role in American politics. This course explores the early historical formation of racial categories, the role of policy in defining racial inequalities and racial boundaries, and how past political decisions are reflected in modern racial realities in the United States. Course topics include the law and history of slavery; segregation and Jim Crow laws; housing, employment, and voting rights; and education and criminal justice policies. This class emphasizes participation and reflection, as students learn to better understand political racialization and the intersections of race and law in the US.

POLS 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Project Management

PROJ 100
Introduction to Project Management [RE] • 5.0 Credits
An introduction to foundational knowledge and concepts for the project management profession. Introduces key project definitions, project phases, and the project management knowledge areas. Also introduces students to project management activities such as scope, cost, and schedule management, project leadership skills, and the project team development model. The role of ethics in project management is also discussed.

PROJ 110
Project Planning [RE] • 5.0 Credits
Examines the important planning phase of a project which includes preparing the project management plan, defining the project scope and work breakdown structure; defining the activities and schedule; and estimating the costs and defining the budget. Also addresses planning quality, human resources, communication, risk, and procurement elements of a project. **Prerequisite: Completion of PROJ 100 and CS 101 with a 2.0 or better**

PROJ 130
Introduction to Microsoft Project [RE] • 5.0 Credits
MS Project is used to develop the project schedule including such things as creating a work breakdown structure; identifying activities, estimates, durations, and relationships; and assignment of resources. Provides hands-on skills for a basic understanding of such things as capturing performance data; preparing outputs and reports; and using baselines. **Prerequisite: Completion of PROJ 110 with a 2.0 or better.**

PROJ 150
Agile Project Management [RE] • 5.0 Credits
This course introduces agile concepts, tools, techniques, and behaviors as they apply to project management. Also explored are agile frameworks (including Scrum), estimating, user stories, Kanban, information radiators and how agile project management deviates from the traditional project management paradigm. **Prerequisite: Completion of PROJ 100 and CS 101 with a 2.0 or better**

PROJ 170
Project Management Internship [RE] • 1.0–5.0 Credits
Designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on new experiences in an actual work setting. Instructor permission is required to enroll. Grade is pass/no credit.

PROJ 211
Project Procurement [RE] • 5.0 Credits
Provides basic understanding of the project procurement management including key processes, roles/responsibilities, and types of contracts. Addresses the various roles people play in the procurement process and how procurement management plays a key part in achieving successful projects. **Prerequisite: Completion of PROJ 110 with a 2.0 or better.**

PROJ 222
Project Quality Management [RE] • 5.0 Credits
Provides further understanding of how project quality planning and control contribute to sound project management and improved project results. This course addresses quality tools, skills, and techniques. **Prerequisite: Completion of PROJ 110 with a 2.0 or better.**

PROJ 230
Emotional Intelligence & Communication [RE] • 5.0 Credits
Formerly PROJ 230, PROJ 330
This course addresses emotional intelligence to include self-management, stakeholder engagement, and team development. Further, essential communication skills, which, according to research, can be directly tied to over 80% of project failures, such as conflict management, are analyzed. These emotional intelligence and communication skills are addressed through course assignments including group projects, individual projects, interactive discussions, and quizzes. **Prerequisite: Completion of PROJ 110 with a 2.0 or better.**

PROJ 231
Project Risk Management [RE] • 5.0 Credits
Provides additional knowledge and skills for identifying project risks, analyzing risks, and risk responses. Addresses both quantitative and qualitative analysis, risk monitoring and control techniques, risk probability, and risk impacts. **Prerequisite: Completion of PROJ 110 with a 2.0 or better.**

PROJ 240
Emerging Project Management Practices [RE] • 5.0 Credits
This class presents emerging practices related to project management that are not covered in the existing curriculum. Topics relate to cutting-edge technical discipline knowledge, tools, systems, processes, procedures, techniques, strategies/approaches, and/or emerging theories in project/program/portfolio management. Class must be passed with a 2.0 or better to count for AAS in Project Management degree. **Prerequisite: Completion of PROJ 110 and PROJ 130 both with a 2.0 or better.**

PROJ 241
Project Management Capstone [RE] • 5.0 Credits
Integrates all the various project management knowledge and skills learned in previous courses into a simulated project(s) including project initiation, planning, execution, and monitoring/control activities in a team environment. Includes evaluation of project decisions to identify improvement opportunities. **Prerequisite: Completion of either PROJ 120 or PROJ 150, and PROJ 130, PROJ 211, PROJ 222, PROJ 230, and PROJ 231, all with a 2.0 or better.**

PROJ 270
Project Management Internship [RE] • 1.0–5.0 Credits
Designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on new experiences in an actual work setting. Instructor permission is required to enroll. Grade is pass/no credit.

PROJ 299
Special Studies [RE] • 1.0–5.0 Credits
A class used to explore new coursework.

PROJ 310
Project Contracts & Legal Issues • 5.0 Credits
Develops concepts beyond PROJ 211 dealing specifically with contracts including advanced contract administration topics such as monitoring/change control and claims. Also addresses project management legal issues. **Prerequisite: Completion of PROJ 211 with a 2.0 or better.**

PROJ 320
Project Monitoring, Control, & Earned Value • 5.0 Credits
Develops monitoring and control issues including earned value management concepts and skills. **Prerequisite: Completion of PROJ 130 with a 2.0 or better.**

PROJ 340
Advanced Emerging Project Management Practices • 5.0 Credits
This class presents advanced emerging practices related to project management that are not covered in the existing curriculum. Topics chosen relate to cutting-edge technical discipline knowledge, tools, systems, processes, procedures, techniques, strategies/approaches, and/or emerging theories in project/program/portfolio management. Class must be passed with a 2.0 or better to count for BAS in Project Management degree. **Prerequisite: Completion of PROJ 110 and PROJ 130 both with a 2.0 or better.**

PROJ 370
Project Management Internship • 1.0–5.0 Credits
Designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired

through hands-on new experiences in an actual work setting. Instructor permission is required to enroll. Grade is pass/no credit.

PROJ 411
Advanced Microsoft Project • 5.0 Credits
Develops advanced schedule concepts and practices using Microsoft Project software, beyond those learned in PROJ 130, including topics such as resource leveling, critical path management, baselining, and progress reporting. The class utilizes scenarios to be addressed using the software. **Prerequisite: Completion of PROJ 130 with a 2.0 or better.**

PROJ 430
Leadership and Human Resources • 5.0 Credits
This course integrates core concepts of project communication and emotional intelligence into two critical components of effective project management. The two components surround leadership and human resource dynamics. On the leadership side, the nuances of personal and stakeholder dynamics are highlighted. According to research, both of these critical components heavily influence successful project execution. The skills for this course are developed through personal assessments, discussion board assignments, quizzes, and in-class collaboration. **Prerequisite: Completion of PROJ 230 and CMST 415, both with a 2.0 or better.**

PROJ 470
Project Management Internship • 1.0–5.0 Credits
Designed to provide students with major-related, supervised, evaluated practical training work experiences which may be paid or voluntary. Students are graded on the basis of documented learning acquired through hands-on new experiences in an actual work setting. Instructor permission is required to enroll. Grade is pass/no credit.

PROJ 480
Advanced Project Management Capstone • 5.0 Credits
Integrates all the various project management knowledge and skills learned in previous courses into a simulated project(s) including project initiation, planning, execution, and monitoring/control activities in a team environment. This course includes evaluation of project decisions to identify improvement opportunities. **Prerequisite: Completion of PROJ 241, PROJ 310, PROJ 320, PROJ 411, and PROJ 430, all with a 2.0 or better.**

Psychology

PSYC& 100
General Psychology [S/B] • 5.0 Credits
Formerly PSY 101, PSYC& 100
Introduction to the scientific study of human behavior and mental processes. Topics include major psychological theory, learning, neuropsychology, consciousness, cognition, memory, and research methods.

PSYC 103
Applied Psychology • 3.0 Credits
Formerly PSY 100, PSYC 103
Designed to meet requirements for students graduating with vocational and technical degrees. The application of psychology in the workplace and the development of human relations skills is emphasized.

PSYC 106
Child Growth & Development • 3.0 Credits
Formerly PSY 106, PSYC 106
This course provides an overview of all aspects of child growth and the developmental stages of children from conception to adolescence, including the physical, cognitive, linguistic, emotional, mental, social, and personality development of the child. Provides an understanding of the things and situations that can affect how a child behaves.

PSYC& 180
Human Sexuality • 5.0 Credits
Formerly PSY 230, PSYC& 180
A survey of human sexuality from biological, psychological, sociocultural, and sociobiological perspectives. Topics include sexual orientation, sexual dysfunction, and sexually transmitted diseases.

PSYC 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

PSYC& 200
Lifespan Psychology [S/B] • 5.0 Credits
Formerly PSY 240, PSYC& 200
A comprehensive survey of psychological development of the human from conception to death using the biopsychosocial approach. **Prerequisite: Completion of PSYC& 100 with a 0.7 or higher.**

PSYC 201
Social Psychology [S/B] • 5.0 Credits
Formerly PSY 201, PSYC 201
This course will provide students with an introduction to the field of social psychology, a subfield of the science of psychology that focuses on the perceptions, thoughts, feelings, and behaviors of individuals and groups within a social context. As this is a survey course, this class will give you a broad overview of the major theories and findings within social psychology. It is recommended that students complete PSYC& 100 prior to enrollment.

PSYC 205
Psychology of Adjustment • 5.0 Credits
Formerly PSY 205, PSYC 205
A study of important findings of modern psychology as they relate to adjustment: social development, personality theory, motivation, mental health, and resources for personal growth.

PSYC 209
Fundamentals of Psychological Research [S/B] • 5.0 Credits
Covers psychological research methodology and techniques. Topics include the logic of hypothesis testing, experimental design, research strategies and techniques, fundamentals of scientific writing, evaluation of research literature in psychology, and ethical issues in psychological research. Students learn to apply computer software to data collected in psychological research, and participate in a class research project. **Prerequisite: Completion of PSYC& 100 with a 0.7 or higher.**

PSYC 217
Forensic Psychology • 5.0 Credits
Introduces students to the interface of psychology and the law. The applications of psychological theory, research, methods, and expertise to issues that come before the legal system are the focus of this course. Topics include forensic assessment; competency and insanity; dangerousness and psychopathy; domestic violence; profiling; child abuse; and sex offenders. Legal standards regarding insanity, civil commitment, and eye-witness and expert testimony will be reviewed.

PSYC& 220
Psychological Disorders [S/B] • 5.0 Credits
Formerly PSY 202, PSYC& 220
Explores the conceptualization of abnormality and mental disorders from sociocultural, biological, psycho-dynamic, cognitive, and behavioral perspectives. Describes maladaptive mental disorders as well as their incidence and treatment. **Prerequisite: Completion of PSYC& 100 with a 1.0 or higher.**

PSYC 270
Health Psychology [PE] • 5.0 Credits
An overview of the psychological, behavioral, and social factors in health and disease. The biopsychosocial approach integrates the understanding and application of biological, psychological, and social factors as they relate to one's health and overall well-being. Some topics covered include stress and wellness, the adoption of healthy behaviors, and the avoidance of maladaptive behaviors. It is recommended that students complete PSYC& 100 prior to enrollment.

PSYC 280
Positive Psychology • 5.0 Credits
Historically, psychology has been somewhat negative in orientation, through an emphasis on human weaknesses and liabilities, abnormalities, developmental difficulties, pathology, and treatment modalities. Mental illness, rather than mental health, has been a primary focus for research and practice. This course describes how the scope of psychology has recently been broadened to understand positive emotion, build strength and virtue, and provide a framework for creating what Aristotle called the good life. Topics include happiness (subjective well-being, positive emotions), optimal performance, personal fulfillment, optimal wellness/medical health, emotional intelligence, creativity, optimism, hope, self-efficacy, goals and life commitments, wisdom, spirituality, meaning and purpose in life, and the civic virtues. **Prerequisite: Completion of PSYC& 100 with a 0.7 or higher.**

PSYC 297
Field Experience • 1.0–3.0 Credits
Students work as volunteers in a community agency and complete a journal and report (usually 1 credit). **Prerequisite: Completion of PSYC& 100 with a 0.7 or higher, and instructor permission.**

PSYC 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Radiation Protection Technician

RPT 111
Radiation Fundamentals [RE] • 5.0 Credits
This course provides future radiological protection technicians with an overview of radioactivity, sources of radiation, and radioactive decay. Emphasis is placed on plant safety, radiological hazards, and radioactivity containment. **Prerequisite: Completion of NT 111 with a 2.0 or higher, or instructor permission.**

RPT 121
Radiation Monitoring [RE] • 5.0 Credits
Principles of radiation detection and measurement principles. Application of radiological survey and analysis instruments, sample collection equipment, and calibration sources and equipment. **Prerequisite: Completion of RPT 111 with a 2.0 or higher, or instructor permission.**

RPT 131
Radiation Effects [RE] • 5.0 Credits
Radiation biology, radiation effects on simple chemical systems, biological molecules, cells, organisms, and humans. Stochastic vs. deterministic effects, units of exposure, dose and dose equivalent, external dosimetry, internal dosimetry, control of external and internal exposure, detector and instrumentation systems for measuring dose. **Prerequisite: Completion of RPT 111 with a 2.0 or higher, or instructor permission.**

RPT 141
Radioactive Materials Handling [RE] • 5.0 Credits
Radioactive material control and methods to minimize and control external exposure and airborne radioactivity. **Prerequisite: Completion of RPT 111 with a 2.0 or higher, or instructor permission.**

RPT 211
Radiological Safety and Response [RE] • 5.0 Credits
This course focuses on contamination control and appropriate responses to radiological events. **Prerequisite: Completion of RPT 111 with a 2.0 or higher, or instructor permission.**

RPT 222
Radiation Protection [RE] • 5.0 Credits
Practical applications and demonstrations of radiation protection and health physics. Radiological protection standards, contamination control, radiological incident evaluation and control, decontamination, and environmental monitoring. **Prerequisite: Completion of RPT 111 with a 2.0 or higher, or instructor permission.**

Radiologic Technology

RATEC 102
Radiographic Physics [RE] • 5.0 Credits
This course offers an in-depth exploration of radiation principles, including matter and energy dynamics, electricity, and electromagnetism. Students will delve into x-ray technology, covering circuits, tubes, equipment, and production. Key topics also encompass x-ray prime factors, interactions, and radiation safety. Designed for concise yet comprehensive coverage, this course equips participants with essential knowledge and practical insights into radiologic technology. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 103
Principles of Radiographic Exposure [RE] • 3.0 Credits
This course delves into digital imaging in radiography, covering spatial and contrast resolution, image signal characteristics, and the essentials of pixel and detector technology. Learn about the technicalities of sampling frequency, matrix size, bit depth, and the critical role of modulation transfer function. Compare plain film, computed, and digital radiographic imaging, including their pre/post-processing features. Understand how technical factors influence detector exposure and the significance of informatics in medical imaging. A concise yet thorough exploration tailored for a deep understanding of digital imaging's technical considerations. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 104
Advanced Radiographic Procedures [RE] • 3.0 Credits
This course focuses on radiographic positioning and anatomy for the bony thorax, airway, skull, facial bones, sinuses, mandible, and covers fluoroscopic procedures for the urinary, digestive, and biliary systems.

It includes lectures and labs on contrast exams and fluoroscopy in the operating room. Weekly, students receive two hours of lecture and two hours of lab, learning to apply radiation protection, prepare patients, adjust technique factors, and evaluate radiographs for diagnostic quality, all while upholding professional standards. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 105
Introduction to Radiographic Technique [RE] • 2.0 Credits
Explore radiographic image evaluation and quality management in this course. Learn to assess image quality, understanding exposure indicators, resolution, and artifacts. Dive into x-ray quality concepts, image receptor exposure, and diagnostic image critique. Study mobile imaging, including portable x-rays and C-arms, plus fluoroscopy unit functions and radiation safety. Perfect for enhancing skills in radiography and quality assurance. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 106
Computed Imaging [RE] • 2.0 Credits
Presents computed imaging in comparison to screen-film technology. Topics include identifying components, understanding how they affect the image, and quality control. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 107
Positioning and Related Anatomy I [RE] • 3.0 Credits
This course offers a foundational exploration into the realms of body planes, anatomical landmarks, medical terminology, and the essentials of radiographic techniques. With a blend of theoretical knowledge and practical skills, students will gain hands-on experience in positioning and imaging for the pelvis, thoracic, and abdominal cavities. The curriculum is structured around weekly sessions comprising two one-hour lectures and a two-hour lab, designed to foster a deep understanding of radiographic equipment, body positions, planes, projections, and the anatomical intricacies of key body cavities. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. $150 Trajecsys software access fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 108
Positioning and Related Anatomy II [RE] • 3.0 Credits
This course offers an in-depth exploration of the anatomy and radiographic positioning techniques for the upper and lower extremities, blending theoretical knowledge with practical application. Through a structured format of weekly two one-hour lectures and two-hour lab sessions, students will learn to describe and identify the intricate anatomical structures and execute precise radiographic positioning for these areas. Emphasis is placed on delivering proper patient care, especially for trauma patients, and performing specialized radiographic techniques tailored to the extremities. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 109
Positioning and Related Anatomy III [RE] • 3.0 Credits
This course offers hands-on training in radiographic positioning and anatomy for the shoulder girdle, lumbar spine, sacrum, coccyx, and cervical and thoracic spine. Through weekly two one-hour lectures and two-hour lab sessions, students will learn to identify anatomical structures, apply shielding, prepare and position patients (including trauma cases), and adjust radiographic techniques for optimal imaging. The course emphasizes professional ethics, patient care, and evaluating and adjusting radiographs for diagnostic quality, preparing students for excellence in radiologic technology. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 111
Clinical Education I [RE] • 5.0 Credits
Second in a series of supervised clinical education experiences. Students are assigned to clinical sites, 16 hours per week. Students observe and perform diagnostic radiologic procedures. $10.72 per quarter malpractice insurance fee. $25.65 dosimetry badge fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 112
Clinical Education II [RE] • 5.0 Credits
Third in a series of supervised clinical education experiences. Students are assigned to clinical sites, 16 hours per week. Specific performance objectives are established for each student. $10.72 per quarter malpractice insurance fee. $25.65 dosimetry badge fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 113
Clinical Education IV [RE] • 13.0 Credits
Clinical Education IV advances the series of clinical education with a focus on enhancing the breadth of radiologic skills and responsibilities. As the fourth course, it aims to consolidate students' proficiency in more complex radiographic procedures, patient care, and interprofessional collaboration within a healthcare setting, preparing them for the transition into professional practice. $10.72 per quarter malpractice insurance fee. $25.65 dosimetry badge fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 114
Supplemental Clinical Practicum I [RE] • 1.0 Credit
An optional course that offers supervised clinical education experiences between the fall and winter quarter of the first program year. Students are assigned to clinical sites, 16 hours per week. Students observe and perform diagnostic radiologic procedures. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 120
Nursing Procedures [RE] • 2.0 Credits
Presents basic nursing procedures emphasizing the role of the radiologic technologist in various patient-care situations. Incorporates seven hours of AIDS and bloodborne pathogen education. Healthcare provider BLS is included. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 121
Patient Care [RE] • 2.0 Credits
Examines patient care and assessment in the imaging department, as well as in other special care units. Topics include medications and their administration, acute patient care, bedside radiography, and patient lines and tubes. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 127
Introduction to Sectional Anatomy [RE] • 2.0 Credits
Expands knowledge of anatomy through the introduction of multiple plane orientations. Students review normal anatomy of the brain, chest, abdomen, pelvis, neck, and spine. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 199
Special Studies [RE] • 1.0–10.0 Credits
A class used to explore new coursework. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 207
Concept Integration [RE] • 2.0 Credits
Prepares students for the American Registry of Radiologic Technologists exam through a comprehensive review. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 210
Clinical Education III [RE] • 13.0 Credits
Clinical Experience III is the third in our series of supervised clinical education, offering an immersive rotation where students engage in an expanded set of skills and responsibilities. Tailored performance objectives guide each student's development, enhancing their practical expertise in radiologic technology and preparing them for complex roles in healthcare environments. $10.72 per quarter malpractice insurance fee. $25.65 dosimetry badge fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 212
Clinical Education V [RE] • 8.0 Credits
Clinical Education V is the penultimate clinical experience in the series, advancing students' proficiency in radiologic practices. Students engage in focused clinical rotations, applying their skills to meet individual performance objectives. This stage is designed to refine their competency in specialized imaging procedures, patient care, and interdisciplinary collaboration, preparing them for their final transition into professional practice. $10.72 per quarter malpractice insurance fee. $25.65 dosimetry badge fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 213
Clinical Education VI [RE] • 8.0 Credits
Clinical Education VI, as the final clinical course, provides a capstone experience for radiologic technology students. This course solidifies students' competencies in all radiographic procedures and patient care protocols. It emphasizes autonomy in clinical decision-making, mastery in advanced imaging techniques, and readiness for entry into the professional environment. Students demonstrate integrative knowledge and skills, reflecting their full transition from learners to healthcare professionals ready to contribute to a dynamic workplace. $10.72 per quarter malpractice insurance fee. $25.65 dosimetry badge fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 214
Supplemental Clinical Practicum II [RE] • 1.0 Credit
An optional course that offers supervised clinical education experiences between the fall and winter quarter of the second program year. Students are assigned to clinical sites, 16 hours per week. Students observe and perform diagnostic radiologic procedures. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 220
Pathology I [RE] • 3.0 Credits
Introduces changes that occur in disease and injury, with application to radiologic technology. Topics include respiratory, skeletal, gastrointestinal, and urinary systems. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 221
Pathology II [RE] • 2.0 Credits
Continues RATEC 220. Students become familiar with the etiology, symptoms, prognosis, and imaging of disease processes of the cardiovascular, nervous, hemopoetic, endocrine, and reproductive systems. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 240
Radiation Biology and Protection [RE] • 3.0 Credits
Explores types of radiation, interaction of radiation with matter, and the effects of those interactions in human tissue. Students learn methods and principles of radiation protection for both patient and technologist. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 296
Special Topics In Radiology [RE] • 2.0 Credits
Allows study of special topics that may be necessary to update students in the field of radiologic technology. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

RATEC 299
Special Studies [RE] • 1.0–10.0 Credits
A class used to explore new coursework. $10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

Reading

RDG 91
Reading Skills [RE] • 5.0 Credits
Reinforces essential reading comprehension skills: recognizing vocabulary in context, locating main ideas, understanding supporting details, identifying transitions, making inferences, outlining and summarizing, and recognizing patterns of organization. This class gives students an opportunity to practice and improve these strategies in a supportive environment. Grade is pass/no credit. **Prerequisite: Appropriate placement or teacher recommendation.**

RDG 99
College Reading Skills [RE] • 5.0 Credits
Breaks reading down into the skills necessary for academic success: learning vocabulary in context, locating main ideas and supporting details, and recognizing inferences, transitions, patterns of organization, purpose and tone, support for argument, and fact and opinion. Grade is pass/no credit. **Prerequisite: Appropriate placement, or completion of RDG 91 with a 0.7 or better, or teacher recommendation.**

RDG 115
Vocabulary Improvement [RE] • 1.0–3.0 Credits
This class teaches students to advance their vocabulary for college-level writing using a words-in-context approach.

RDG 199
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

RDG 299
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

Respiratory Therapy

RT 301
Fundamentals of Respiratory Care I • 8.0 Credits
This introductory course immerses students in the essentials of respiratory therapy practice, providing a comprehensive overview of the respiratory care field. Students will learn core skills, including proper use of personal protective equipment (PPE), maintaining personal hygiene, and handling basic respiratory therapy equipment. Emphasis is placed on patient safety, introductory patient assessment techniques, and fundamental oxygen delivery methods. This course establishes the foundational knowledge and practical skills necessary for success in more advanced respiratory care training and clinical settings. **Prerequisite: Acceptance into CBC's Respiratory Therapy program.**

RT 302
Cardiopulmonary Anatomy & Physiology • 6.0 Credits
This course offers an in-depth study of the structure and function of the cardiopulmonary system. Topics include the respiratory and circulatory systems, gas exchange mechanisms, blood gas analysis, and the regulatory aspects of breathing and circulation. **Prerequisite: Acceptance into CBC's Respiratory Therapy program.**

RT 303
Fundamentals of Respiratory Care II • 8.0 Credits
Continuing from RT 301, this course delves into intermediate respiratory care techniques, including non-invasive ventilation, patient assessment, and management of acute respiratory conditions. Emphasis on integrating clinical decision-making with theoretical knowledge. **Prerequisite: Completion of RT 301, RT 311, and RT 302 with a grade of 2.0 or better.**

RT 304
Respiratory Therapy Pharmacology • 6.0 Credits
This course explores pharmacological agents in respiratory care, including bronchodilators, corticosteroids, and anti-infectives. Emphasis on pharmacodynamics, dosing, side effects, and clinical application in respiratory disorders. **Prerequisite: Completion of RT 301, RT 311, and RT 302 with a grade of 2.0 or better.**

RT 305
Fundamentals of Respiratory Care III • 6.0 Credits
Building on previous courses, this class addresses complex respiratory care practices, focusing on critical care, advanced patient management strategies, and ethical considerations in respiratory therapy. **Prerequisite: Completion of RT 303, RT 313, and RT 304 with a grade of 2.0 or better.**

RT 306
Advanced Respiratory Pathophysiology • 3.0 Credits
An in-depth exploration of respiratory pathophysiology, this course examines the underlying mechanisms and clinical manifestations of various pulmonary diseases, emphasizing their impact on respiratory function and patient care **Prerequisite: Completion of RT 303, RT 313, and RT 304 with a grade of 2.0 or better.**

RT 311
Fundamentals of Respiratory Care I Lab • 3.0 Credits
A practical laboratory complementing RT 301, this course provides hands-on experience with basic respiratory care equipment and procedures. Students will engage in simulations that reinforce theoretical concepts, focusing on proper equipment use and patient care techniques. $95 respiratory therapy lab supply fee. **Prerequisite: Acceptance into CBC's Respiratory Therapy program.**

RT 313
Fundamentals of Respiratory Care II Lab • 3.0 Credits
A hands-on lab experience complementing RT 303. Focuses on intermediate respiratory care procedures, non-invasive ventilation setups, and patient management simulations, enhancing technical and decision-making skills. $95 respiratory therapy lab supply fee. **Prerequisite: Completion of RT 301, RT 311, and RT 302 with a grade of 2.0 or better.**

RT 315
Fundamentals of Respiratory Care III Lab • 3.0 Credits
An advanced laboratory course that reinforces and expands on the concepts from RT 305. Students engage in simulated critical care scenarios, mastering advanced respiratory care techniques and patient management strategies. $95 respiratory therapy lab supply fee. **Prerequisite: Completion of RT 303, RT 313, and RT 304 with a grade of 2.0 or better.**

RT 327
Respiratory Therapy Clinical I • 4.0 Credits
The first clinical practicum, offering immersive experience in real-world respiratory care settings. Emphasis on applying theoretical knowledge to patient care, diagnostic procedures, and therapeutic interventions. $10.72 malpractice insurance fee. **Prerequisite: Completion of RT 303, RT 313, and RT 304 with a grade of 2.0 or better.**

RT 401
Fundamentals of Respiratory Care IV • 5.0 Credits
This course focuses on specialized areas of respiratory care, including pediatric and neonatal care, advanced diagnostic techniques, and the latest trends in respiratory therapy. **Prerequisite: Completion of RT 305, RT 315, RT 306, and RT 327 with a grade of 2.0 or better.**

RT 402
Electrocardiography • 2.0 Credits
An introduction to electrocardiography, this course covers the basics of ECG technique and interpretation. Students will learn to recognize normal and abnormal heart rhythms and understand their clinical significance. **Prerequisite: Completion of RT 305, RT 315, RT 306, and RT 327 with a grade of 2.0 or better.**

RT 403
Fundamentals of Respiratory Care V • 6.0 Credits
This advanced course covers comprehensive respiratory care in various clinical settings, including critical care, long-term care, and rehabilitation. Focus on patient assessment, advanced therapeutic techniques, and interprofessional collaboration. **Prerequisite: Completion of RT 401, RT 411, RT 402, RT 412, and RT 423 with a grade of 2.0 or better.**

RT 405
Respiratory Therapy Capstone Project • 4.0 Credits
This course requires senior respiratory therapy students to develop and complete a research project or clinical case study. The project demonstrates their mastery of respiratory care principles and their ability to apply knowledge to real-world situations. **Prerequisite: Completion of RT 424 with a grade of 2.0 or better.**

RT 407
Professional Credentialing Preparation • 4.0 Credits
This course prepares students for professional credentialing exams in respiratory care. It includes comprehensive review sessions, practice exams, and strategies for successful test-taking, covering all major aspects of respiratory therapy. **Prerequisite: Completion of RT 405 and RT 426 with a grade of 2.0 or better.**

RT 411
Fundamentals of Respiratory Care IV Lab • 3.0 Credits
This lab course accompanies RT 401 and provides practical experience in specialties including pediatric and neonatal respiratory care techniques, along with advanced diagnostic procedures in respiratory therapy. $95 respiratory therapy lab supply fee. **Prerequisite: Completion of RT 305, RT 315, RT 306, and RT 327 with a grade of 2.0 or better.**

RT 412
Electrocardiography Lab • 1.0 Credit
Complementing RT 402, this lab focuses on hands-on ECG acquisition and analysis. Students will practice correct lead placement, ECG interpretation, and troubleshooting common ECG acquisition problems. $95 respiratory therapy lab supply fee. **Prerequisite: Completion of RT 305, RT 315, RT 306, and RT 327 with a grade of 2.0 or better.**

RT 413
Fundamentals of Respiratory Care V Lab • 3.0 Credits
This lab complements RT 403, offering hands-on experience with advanced respiratory care equipment and techniques in diverse clinical scenarios. $95 respiratory therapy lab supply fee. **Prerequisite: Completion of RT 401, RT 411, RT 402, RT 412, and RT 423 with a grade of 2.0 or better.**

RT 423
Respiratory Therapy Clinical II • 3.0 Credits
This clinical practicum provides students with hands-on experience in respiratory care. Under supervision, students will develop foundational skills in patient assessment, respiratory diagnostics, and therapeutic techniques, including pulmonary function. Emphasis is placed on translating theoretical knowledge into practical application, fostering competence in entry-level respiratory care procedures, documentation, and professional communication. $10.72 malpractice insurance fee. **Prerequisite: Completion of RT 305, RT 315, RT 306, and RT 327 with a grade of 2.0 or better.**

RT 424
Respiratory Therapy Clinical III • 8.0 Credits
In this clinical practicum, students are immersed in real-world respiratory care settings. Emphasis on applying theoretical knowledge to patient care, diagnostic procedures, and therapeutic interventions. $10.72 malpractice insurance fee. **Prerequisite: Completion of RT 403 and RT 413 with a grade of 2.0 or better.**

RT 426
Respiratory Therapy Clinical IV • 8.0 Credits
A continuation of the clinical series, this course provides advanced clinical experiences in respiratory care. Students will engage in patient management in diverse settings, focusing on critical care scenarios and advanced respiratory support techniques. $10.72 malpractice insurance fee. **Prerequisite: Completion of RT 424 with a grade of 2.0 or better.**

RT 428
Respiratory Therapy Clinical V • 8.0 Credits
The final clinical practicum in the series, this course offers students in-depth, hands-on experiences in specialized areas of respiratory care. Emphasis is on integrating all learned skills and knowledge in the management of complex respiratory cases in various clinical settings. $10.72 malpractice insurance fee. **Prerequisite: Completion of RT 405 and RT 426 with a grade of 2.0 or better.**

Social Science

SSCI 199
Special Studies [RE] • 1.0–15.0 Credits
A class used to explore new coursework.

SSCI 290
Social Research Methods [S/B] • 4.0 Credits
Introduces the theory, methodology, and some of the specific techniques of social science research. Students learn how to compose research questions, review the literature, make measurements and obtain data, perform basic analyses of qualitative and quantitative data, and write up research findings. This course also explores the philosophical underpinnings and ethical considerations involved in social research. Intended for students majoring in the social or behavioral sciences.

SSCI 291
Social Research Methods Lab [S/B] • 1.0 Credit
Lab to be taken concurrently with SCCI 290. $11.40 lab fee.

Social Work

SOWK 101
Introduction to Social Work • 5.0 Credits
Formerly HS 101, SOWK 101
An overview of social work experience including history, purpose and tasks, practice settings, and future trends of social work profession.

SOWK 103
Social Work Ethics [RE] • 5.0 Credits
Formerly HS 103, SOWK 103
The course is designed to review, discuss, and evaluate ethics as it pertains to the field of Social Work. The course will cover current ethical codes, ethical decision making, and how students' personal beliefs, attitudes, biases, and values impact their role as helping professionals.

SOWK 201
Counseling Theory and Practice [RE] • 5.0 Credits
Formerly HS 201, SOWK 201
This course is an overview of major theories of counseling and psychotherapy. Students will be exposed to a wide variety of theories and have the opportunity to apply those approaches in classroom exercises and role-playing situations. Students will have the opportunity to develop a unique style of counseling, utilizing effective techniques with an emphasis on multicultural awareness. **Prerequisite: Completion of SOWK 101 with a 0.7 or higher, or concurrent enrollment.**

Sociology

SOC& 101
Intro to Sociology [S/B] • 5.0 Credits
Formerly SOC 101, SOC& 101
An introduction to the scientific study of society. Emphasis on relationship of the individual to society, inequality, social institutions, and deviant behavior.

SOC 110
Gender, Media, & Popular Culture [S/B] • 5.0 Credits
This course explores how men and women, as well as the qualities of "masculinity" and "femininity," are portrayed in print, visual, and news media, as well as the relationship between gender and cultural experiences, such as technology, sports, and violence. **Prerequisite: This course is cross-listed with WS 110. Students completing SOC 110 may not receive graduation credit for WS 110.**

SOC 115
Intro to Middle East History & Society [S/B] • 5.0 Credits
Formerly HIS 115, HIST 115, SOC 115
This course will introduce students to the sociology and history of the Middle East as one of the most diverse regions in the world. Specifically, it examines the historical development as well as the current transformation of social, cultural, economic, and political systems of Middle Eastern societies. Topics will be examined using a macro-sociological approach which analyzes both their internal dynamics and their role and place in the world. **Prerequisite: This course is cross-listed with HIST 115. Students completing SOC 115 may not receive graduation credit for HIST 115.**

SOC 150
Marriage, Family, and Relationships [S/B] • 5.0 Credits
The family is discussed in broad sociobiological, historical, and comparative perspectives. Modern family life is analyzed after conceptual frameworks have been developed.

SOC 160
Gender Studies [S/B] • 5.0 Credits
Societies create many roles for their members, depending upon technology, organization, and the distribution of power. Some of those roles are assigned on the basis of sex. This course examines the social creation of those gender roles assigned to sex and sexual behavior, and explores the inner life of acting out those roles.

SOC 197
Field Experience • 1.0–3.0 Credits
Arrangements are made for students to receive actual field experience. The number of hours per week determines the credit enrollment. **Prerequisite: Completion of SOC& 101 with a 0.7 or higher, and instructor permission.**

SOC 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

SOC& 201
Social Problems [S/B] • 5.0 Credits
Formerly SOC 201, SOC& 201
Examines conditions that adversely affect the quality of life in the United States. Deviant behavior (crime, alcoholism, drug abuse, sexual deviance, mental illness) and problems of inequality (including poverty, racism, and sexism) are to be covered.

SOC 220
Globalization [S/B] • 5.0 Credits
Formerly ICS 220, SOC 220
Sociological analysis of the global interconnectedness of things, people, and ideas. Topics include economic development and trade, immigration and citizenship, human rights, transmission of culture and knowledge, and new technologies including the internet. Emphasis on understanding the significance of social forces and inequalities in shaping globalization processes. **Prerequisite: This course is cross-listed with ICS 220. Students completing SOC 220 may not receive graduation credit for ICS 220.**

SOC 221
Sociology of Deviance and Crime [S/B] • 5.0 Credits
This course introduces students to the sociological study of social behavior that violates society's accepted norms, namely, deviance and crime (hereafter: deviance). Specifically, the course will help students understand types of crime, non-criminal deviant behavior (such as mental illness and addiction) and how society responds at various levels to these behaviors. Students will learn about the theoretical approaches (labeling theory, differential association theory, control theory, for example) that explain the causes, extent and consequences of deviance in society. Student will also learn how deviance relates to aspects of class, ethnicity and race and to various social institutions, such as family, media, and power.

SOC 230
Human Sexuality • 3.0 Credits
A survey of human sexuality from biological, psychological, sociocultural, and sociobiological perspectives. Topics include sexual orientation, sexual dysfunction, and sexually transmitted diseases.

SOC 269
Sociology of World Cinema [S/B] • 5.0 Credits
Introduces one of the most vital and significant aspects of cultural life in the world. The world cinema is central to an artistic self-awareness that reflects a range of dominant social and cultural issues. Through a number of feature films from the Arab, Iranian, Israeli, Turkish, Chinese, Indian, French, Italian, German, Mexican, and American cinema, this course takes these cultural products as the aesthetic expressions of some enduring social, cultural, political, and economic concerns in contemporary world societies. A total of about ten feature films are shown and discussed in the course of the quarter.

SOC 297
Field Experience • 1.0–3.0 Credits
Arrangements are made for students to receive actual field experience. The number of hours per week determines the credit enrollment. **Prerequisite: Completion of SOC& 101 with a 0.7 or higher, and instructor permission.**

SOC 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

SOC 305
Cybercrime: A Sociological Perspective [S/B] • 5.0 Credits
Cybercrime is a deviant behavior involving the illegal use of computer technology and the internet against individuals, social groups, and institutions. This course examines cybercrime and its various types (such as identity theft, bullying, and cyber-terrorism) as a social problem in the United States and the world. The goal of this course is to introduce students to the theories and methods used by sociologists to understand

the different dimensions of cybercrime including their causes, costs, and challenges to society, and possible solutions. Topics include: cyber-sociology, crime and deviance, types of cybercrime, challenges to social order, society's responses to cybercrime, and socio-economic and ethical consequences of cybercrime. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval. It is also recommended that students complete either SOC& 101 or SOC& 201 prior to enrollment.**

SOC 334
Sociology of Health and Illness • 5.0 Credits
This course introduces students to the sociology of medicine and healthcare. Specifically, this course systematically examines factors that affect health and illness, social epidemiology of disease, the organization of health care systems, strain on healthcare systems, as well as other societal factors affecting the health status of groups and individuals, with a special focus on minority groups. **Prerequisite: Acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

Spanish

SPAN 110
Beginning Spanish for Professionals [H] • 5.0 Credits
Formerly SPA 110, SPAN 110
A beginning-level Spanish course designed for those who interact with Spanish-speaking people professionally, as customers, clients, patients, or co-workers. This course is also intended for students who intend to follow business, service, legal, or medical professions. This class begins with basic Spanish language study, followed by activities specifically designed to meet the individual needs and professions of the participants. No previous Spanish is required.

SPAN 111
Intermediate Spanish for Professionals [H] • 5.0 Credits
Formerly SPA 111, SPAN 111
The second level of Spanish for Professionals, is a course designed for those who interact with Spanish-speaking people professionally, as customers, clients, patients, or co-workers. This course is also intended for students who intend to follow business, service, legal, or medical professions. Continuing basic Spanish instruction is followed by activities specifically designed to meet the individual needs and professions of the participants. **Prerequisite: A grade of 0.7 or higher in either SPAN 110 or SPAN& 121, or instructor permission.**

SPAN 112
Advanced Spanish for Professionals [H] • 5.0 Credits
Formerly SPA 112, SPAN 112
The third level of Spanish for Professionals, a course designed for those who interact with Spanish-speaking people professionally, as customers, clients, patients, or co-workers. This course is also intended for students who intend to follow business, service, legal, or medical professions. Continuing Spanish language instruction is followed by activities specifically designed to meet the individual needs and professions of the participants. **Prerequisite: A grade of 0.7 or higher in either SPAN 111 or SPAN& 122, or instructor permission.**

SPAN& 121
Spanish I [H] • 5.0 Credits
Formerly SPA 101, SPAN& 121
Introduction to the Spanish language including conversational skills, reading, writing and grammar, and Hispanic culture including geography, customs, daily life, and heritage. Designed for the novice learner of Spanish, with little or no proficiency in the Spanish language. It is recommended that students complete at least ENGL 99 prior to enrollment.

SPAN& 122
Spanish II [H] • 5.0 Credits
Formerly SPA 102, SPAN& 122
Introduction to the Spanish language including conversational skills, reading, writing and grammar, and Hispanic culture including geography, customs, daily life, and heritage. **Prerequisite: Completion of SPAN& 121 with a 0.7 or higher, or instructor permission.**

SPAN& 123
Spanish III [H] • 5.0 Credits
Formerly SPA 103, SPAN& 123
Introduction to the Spanish language including conversational skills, reading, writing, grammar, Hispanic culture including geography, customs, daily life, and heritage. **Prerequisite: Completion of SPAN& 122 with a 0.7 or higher, or instructor permission.**

SPAN 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

SPAN 205
Spanish for Spanish Speakers [H] • 5.0 Credits
Formerly SPA 205, SPAN 205
Native or near-native speakers of Spanish develop and improve reading, writing, and grammar skills in their native language, while learning to appreciate the depth and diversity of Latino culture both in the United States and abroad. Special attention is given to spelling, accents, grammar, and vocabulary of standard Spanish. Students are also introduced to a comprehensive and analytical survey of Spanish and Latin American literature.

SPAN 206
Spanish for Spanish Speakers [H] • 5.0 Credits
Formerly SPA 206, SPAN 206
Designed for native or near-native speakers of Spanish who learn Spanish at home and wish to reactivate their use of the Spanish language, while expanding their academic Spanish language skills and cultural knowledge. Emphasis on speaking, reading, writing, and listening comprehension, in response to students' specific needs. Special attention is given to advanced grammar and vocabulary of standard Spanish. **Prerequisite: Completion of SPAN 205 with a 0.7 or higher, or instructor permission.**

SPAN 207
Spanish for Spanish Speakers [H] • 5.0 Credits
Formerly SPA 207, SPAN 207
Designed for native or near-native speakers of Spanish who learn Spanish at home and wish to reactivate their use of the Spanish language, while expanding their academic Spanish language skills and cultural knowledge. Emphasis on speaking, reading, writing, and listening comprehension, in response to students' specific needs. Special attention is given to advanced grammar and vocabulary of standard Spanish. Students are introduced to a comprehensive and analytical survey of Spanish and Latin American literature. **Prerequisite: Completion of SPAN 206 with a 0.7 or higher, or instructor permission.**

SPAN& 221
Spanish IV [H] • 5.0 Credits
Formerly SPA 201, SPAN& 221
Extensive practice in all four language skills (reading, writing, speaking, and listening). The course includes cultural readings and short stories and an in-depth review of basic Spanish grammar, expansion of basic vocabulary, and a broadening of the student's understanding of Hispanic culture. **Prerequisite: Completion of SPAN& 123 with a 0.7 or higher, or instructor permission.**

SPAN& 222
Spanish V [H] • 5.0 Credits
Formerly SPA 202, SPAN& 222
Extensive practice in all four language skills (reading, writing, speaking, and listening). The course includes cultural readings and short stories and an in-depth review of basic Spanish grammar, expansion of basic vocabulary, and a broadening of the student's understanding of Hispanic culture. **Prerequisite: Completion of SPAN& 221 with a 0.7 or higher, or instructor permission.**

SPAN& 223
Spanish VI [H] • 5.0 Credits
Formerly SPA 203, SPAN& 223
Extensive practice in all four language skills (reading, writing, speaking, and listening). The course includes cultural readings and short stories and an in-depth review of basic Spanish grammar, expansion of basic vocabulary, and a broadening of the student's understanding of Hispanic culture.

SPAN 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Spanish Community Interpreting

INTP 101
Introduction to the Interpreting Profession [RE] • 5.0 Credits
This course allows students to explore the interpreting profession, including a variety of professional pathways and specializations. Students will be introduced to the laws and regulations that govern interpreters and the provision of language access. They will learn what interpreters need to know and do to keep themselves safe. They will also begin to understand and apply the codes of ethics and standards of practice that guide interpreter decision making. Learning will be supported by students' observation of professional interpreters at clinical learning sites. Students must be accepted into the Spanish Medical Interpreting program prior to enrollment. **Prerequisite: Acceptance into the Spanish Medical Interpreting program at CBC.**

INTP 102
Medical Terminology for Interpreters I [RE] • 5.0 Credits
This course covers the basics of medical terminology in English and Spanish to support effective interpreting. Students will learn about the differences in word choices and idiomatic expressions among regional variants of Spanish. They will learn about body systems and their anatomy and physiology, as well as common diseases, symptoms, medical treatments, and diagnostic testing. Students will also learn about common abbreviations, understand medical terms based on word roots and affixes, and learn about how U.S. health systems operate. Students must be accepted into the Spanish Medical Interpreting program prior to enrollment. This course can be taken concurrently with INTP 101. **Prerequisite: Acceptance into the Spanish Medical Interpreting program at CBC.**

INTP 103
Consecutive Interpreting I [RE] • 5.0 Credits
Students will learn about consecutive interpreting and note-taking for interpreters. Students will learn about the role of the community interpreter and how to manage the flow of information in an interpreted encounter. They will explore their own personal culture and beliefs and understand how to support the communication goals of everyone involved in the encounter. Learning will be supported by interpreting under supervision at clinical learning sites. **Prerequisite: Acceptance into CBC's Spanish Medical Interpreting program and completion of INTP 101 and INTP 102 with a 1.5 or better.**

INTP 104
Medical Terminology for Interpreters II [RE] • 5.0 Credits
This advanced course in Spanish and English medical terminology for interpreters builds on the terms and concepts learned in Medical Terminology for Interpreters I. Students will learn about specialty medical treatments, procedures and diagnostics, while also learning how to research unknown terms and manage the register of medical terminology. Students will examine the impact of culture on communication, and explore methods of supporting cross-cultural communication in the interpreting encounter. **Prerequisite: Acceptance into CBC's Spanish Medical Interpreting program and completion of INTP 101 and INTP 102 with a 1.5 or better.**

INTP 201
Modes of Interpreting [RE] • 5.0 Credits
This course focuses on three important modes for community interpreters - simultaneous interpreting, sight translation, and written translation. Students will explore each mode, learning how and why each is used in community interpreting, and begin to develop their skills. Learning will be supported by interpreting at clinical learning sites. **Prerequisite: Acceptance into CBC's Spanish Medical Interpreting program and completion of INTP 103 and INTP 104 with a 1.5 or better.**

INTP 202
Consecutive Interpreting II [RE] • 5.0 Credits
In this course, students continue to hone their skills in the consecutive interpreting mode and in note-taking for interpreters. Students will work with increasingly complex material and develop their ability to self-monitor for errors and to replicate the register and style of the speaker. They will apply the code of ethics and standards of practice to interpreting scenarios. Students will also learn about how to begin operating as a freelance interpreter in Washington state and maintain their interpreting credentials. Learning will be supported by independent interpreting at clinical learning sites. **Prerequisite: Acceptance into CBC's Spanish Medical Interpreting program and completion of INTP 103 and INTP 104 with a 1.5 or better.**

Sterile Processing Technician

SPT 100
Foundations of Sterile Processing [RE] • 6.0 Credits
Formerly HCST 100, SPT 100
This course is designed to prepare students for entry-level opportunities within the central service and material management setting. Fundamentals of sterile processing are discussed in the context of today's diverse perioperative environment. Students learn basic technical concepts within the scope of the central service department.

Topics include supply chain management, purchasing and inventory management concepts, recommended standards of practice for instrument and equipment processing, safety regulations, and the impact of effective customer service on quality patient care. $11.40 lab fee. **Prerequisite: Students must be accepted into the Sterile Processing Technician Program prior to enrolling.**

SPT 150
Sterile Processing Clinical [RE] • 12.0 Credits
Formerly HCST 150, SPT 150
This course provides students the opportunity to apply central service and material management concepts within the context of a clinical internship. Students perform technical skills within the scope of the central service department. Skills include cleaning and disinfecting medical devices, preparing items for sterilization, inspecting and assembling surgical instrumentation, operating sterilization equipment, and storing surgical equipment and supplies. $10.72 per quarter malpractice insurance fee. **Prerequisite: Completion of SPT 100 and HSCI 147 with a 2.0 or better in both.**

Surgical Technology

SURG 101
Introduction to Surgical Technology [RE] • 4.0 Credits
Formerly SRGT 101, SURG 101
This course explores fundamental concepts related to perioperative practice and provides a comprehensive introduction into the field of surgical technology. Areas of emphasis include: historical foundations of surgical sciences, role definition and scope of practice, teamwork, operating equipment and instrumentation, aseptic principles, and perioperative case management. **Prerequisite: Completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

SURG 102
Perioperative Science [RE] • 5.0 Credits
Formerly SRGT 110, SURG 102
This course surveys perioperative sciences specific to the practice of surgical technology. Topics include information technology, electricity, lasers, minimally invasive surgical applications, interventional radiology applications, physical and environmental hazards, sterile processing and infection control fundamentals, the disease process, and postoperative wound healing. **Prerequisite: Completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

SURG 103
Perioperative Patient Care [RE] • 2.0 Credits
Formerly SRGT 160, SURG 103
This course explores the duties and responsibilities of the surgical technologist in the assistant circulator role. Additionally, students are introduced to legal and ethical concepts governing perioperative practices related to surgical technology. Topics include: legal concepts and risk management, professional and medical ethics, communication, HIPAA, patient records, medication handling, open gloving, urinary catheterization, patient positioning, preoperative skin preparation, and emergency patient management. **Prerequisite: Completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

SURG 106
Surgical Pharmacology and Anesthesia [RE] • 4.0 Credits
Formerly SRGT 104, SURG 106
This class provides a basic knowledge of the language of pharmacology including: reading, interpreting, and documenting medication orders; systems of measurement and conversions; measuring medications for administration; calculating dosages and solutions; routes of administration for the surgical patient; anesthesia agents and principles of anesthesia administration; and medications used in emergency situations in the operating room. $11.40 lab fee. **Prerequisite: Acceptance into the Surgical Technology program and completion of the following with a minimum grade of 2.0: SURG 101/111, 102/112, and 103/113.**

SURG 107
Surgical Procedures I [RE] • 8.0 Credits
Formerly SRGT 150, SURG 107
This course introduces students to surgery and primary surgical procedures within basic specialties including general surgery, obstetrics and gynecology, otorhinolaryngology, genitourinary surgery, and orthopedics. $257 AST exam - Surgical Technology. **Prerequisite: Acceptance into the Surgical Technology program and completion of the following with a minimum grade of 2.0: SURG 101/111, 102/112, and 103/113.**

SURG 111
Introduction to Surgical Technology Lab [RE] • 3.0 Credits
Skills laboratory designed to accompany SURG 101. This course provides students with an opportunity to demonstrate practical skills designed to facilitate operative procedures in the scrub role and ensure high-quality patient care. Practical skills include: identifying surgical equipment and instrumentation, assembling and preparing surgical supplies, establishing and maintaining the sterile field, surgical hand hygiene, gowning and gloving, intraoperative case management, operative counts, and dressing application. $11.40 lab fee. **Prerequisite: Completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

SURG 112
Perioperative Science Lab [RE] • 2.0 Credits
Skills laboratory designed to accompany SURG 102. This course provides students with an opportunity to demonstrate practical skills designed to facilitate operative procedures in the scrub role and ensure high-quality patient care. Practical skills include: donning operation room attire and PPE, patient transport, minimally invasive applications, electrosurgical unit safety, sterile processing, assisting with wound closure techniques, and surgical specimen handling. $11.40 lab fee. **Prerequisite: Completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

SURG 113
Perioperative Patient Care Lab [RE] • 1.0 Credit
Skills laboratory designed to accompany SURG 103. This course provides students with an opportunity to demonstrate practical skills designed to facilitate operative procedures in the assistant circulator role and ensure high-quality patient care. Practical skills include: reviewing documentation, medication handling, open gloving, urinary catheterization, patient positioning, preoperative skin preparation, and emergency management. $11.40 lab fee. **Prerequisite: Completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

SURG 117
Surgical Procedures Lab [RE] • 3.0 Credits
This course provides students with an opportunity to perform comprehensive practical skills designed to facilitate operative procedures and ensure high-quality patient care in the clinical setting. $11.40 lab fee. **Prerequisite: Acceptance into the Surgical Technology program and completion of the following with a minimum grade of 2.0: SURG 101/111, 102/112, and 103/113.**

SURG 118
Advanced Surgical Skills Lab [RE] • 2.0 Credits
This lab course provides students an opportunity to learn and practice advanced techniques in perioperative case management, including complex draping skills, specialty surgical field setup, correcting breaks in sterility, use of minimally invasive surgical applications, and gowning and gloving for orthopedic procedures. **Prerequisite: Acceptance into the Surgical Technology program and completion of the following with a minimum grade of 2.0: SURG 101/111, 102/112, and 103/113.**

SURG 206
Professional Development [RE] • 2.0 Credits
This course reviews workplace issues, communication strategies, conflict management, leadership, and employability skills. In preparation for graduation and entrance into the workforce, students will develop a professional resume and practice job interview skills. **Prerequisite: Acceptance into the Surgical Technology program and completion of the following with a minimum grade of 2.0: SURG 223 and SURG 207.**

SURG 207
Surgical Procedures II [RE] • 8.0 Credits
Formerly SRGT 250, SURG 207
A progression from SURG 107. This course introduces students to surgery and primary surgical procedures within basic specialties including ophthalmology, oral and maxillofacial surgery, plastic and reconstructive surgery, cardiothoracic surgery, peripheral vascular surgery, and neurosurgery. $105 NBSTSA board review fee. **Prerequisite: Acceptance into the Surgical Technology program and successful completion of SURG 106, 107, and 117 with a minimum grade of 2.0.**

SURG 208
Certification Preparation [RE] • 4.0 Credits
Formerly SRGT 240, SURG 208
Certification Preparation provides an in-depth review of the Core Curriculum for Surgical Technology. Students will also engage in discussions based on their experiential learning opportunities within the clinical practicum to assist in preparation for the Certified Surgical Technologist (CST) national certifying examination. **Prerequisite: Acceptance into the Surgical Technology program and successful completion of SURG 223 and SURG 207 with a minimum grade of 2.0.**

SURG 223
Operating Room Practicum I [RE] • 8.0 Credits
This course provides progressive exposure to and experience with diverse surgical procedures performed in multiple specialties within the clinical setting. Students prepare for and perform assigned surgical procedures under the supervision of facility personnel, clinical preceptors, and clinical college faculty in accordance with patient safety standards and industry best practices. **Prerequisite: Acceptance into the Surgical Technology program and successful completion of SURG 106, 107, and 117 with a minimum grade of 2.0.**

SURG 224
Operating Room Practicum II [RE] • 8.0 Credits
A progression from SURG 223. This course provides progressive exposure to and experience with diverse surgical procedures performed in multiple specialties within the clinical setting. Students prepare for and perform assigned surgical procedures under the supervision of facility personnel, clinical preceptors, and clinical college faculty in accordance with patient safety standards and industry best practices. Clinical experience focuses on advanced skills intended to assist in the transition from classroom to employment. $11.40 lab fee. **Prerequisite: Acceptance into the Surgical Technology program and successful completion of SURG 223 and SURG 207 with a minimum grade of 2.0.**

SURG 293
Independent Study [RE] • 1.0–5.0 Credits
Formerly SRGT 293, SURG 293
A class used to explore new coursework or for a specific topic of special interest. $10.72 per quarter malpractice insurance fee. $11.40 lab fee. **Prerequisite: Completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

Theatre

DRMA 100
Theatre Study Tour • 1.0–3.0 Credits
Formerly DRMA 100, THA 100
Students participate in a field trip experience to attend professional, commercial theatre. Destinations are selected among Ashland, Los Angeles, Seattle, San Francisco, Portland, and New York City. Students meet for analysis and discussions before and after attending the planned events. Fees apply. May be repeated for credit.

DRMA& 101
Intro to Theatre [H] • 5.0 Credits
Formerly DRMA& 101, THA 115
An exploration of the many facets of theatre and the many creative artists who comprise the theatre arts. Students study the history of theatre, styles of production, plays, playwrights, directors, actors, critics, and designers.

DRMA 105
Performance Practicum • 1.0–3.0 Credits
Formerly DRMA 105, THA 105
This variable credit lab course provides students with the opportunity to participate in college theater productions as performers in leading or supporting roles. Students will engage in a hands-on learning environment through rehearsals and performances, with a focus on practical experience in acting and stage performance. Participation in rehearsals and all scheduled performances is mandatory, ensuring students gain valuable experience in live theatrical productions. Repeatable for up to 6 credits which can be applied to an AA degree. $11.40 lab fee.

DRMA 106
Design, Tech, & Management Practicum • 1.0–3.0 Credits
Formerly DRMA 106, THA 106
This variable credit lab course offers students hands-on experience in the technical and managerial aspects of theater production. Students will engage in a range of tasks, including theatrical design, backstage technical work, and stage management. Through active participation in college theater productions, students will develop practical skills in set design, lighting, sound, props, costumes, and stage management. Participation in rehearsals and performances is mandatory, allowing students to gain

comprehensive experience in theater production. Repeatable for up to 6 credits which can be applied to an AA degree. $11.40 lab fee.

DRMA 107
Rehearsal and Performance • 1.0–3.0 Credits
Formerly DRMA 107, THA 107
Participation in college theatre productions on stage and backstage. After play auditions for each quarter, the class, composed of students selected for cast and production staff positions, is involved in rehearsals and performances. $11.40 lab fee.

DRMA 110
Voice and Movement • 3.0 Credits
Formerly DRMA 110, THA 110
Creative and effective communication of ideas through the use of the body and voice. Includes physical and vocal technique, improvisation, and group problem solving.

DRMA 115
Stage Combat • 3.0 Credits
Where there is theatre, there are shows with simulated violence and struggle. Stage Combat is the artform used to safely and effectively communicate these scenes to audiences. It is the art form that bridges the gap between consent/partnering and volatile conflict. Over the course of the quarter, students will learn safe and believable Unarmed and Knife Stage Combat techniques for stage and screen, develop the physicality and skills necessary to perform fight choreography, and gain the ability to learn, rehearse, and perform fight scenes in a theatrical context.

DRMA 120
Acting-Beginning • 5.0 Credits
Formerly DRMA 120, THA 120
An introduction to acting course. This course focuses on creating a character with internal truth that is presented with an awareness of external craft, including interpretive skills, through a variety of exploratory exercises. Class culminates in performance final.

DRMA 121
Acting-Intermediate • 5.0 Credits
Formerly DRMA 121, THA 121
An intermediate studio acting course which is a continuation of DRMA 120. This course continues its focus on creating a character with internal truth that is presented with an awareness of external craft, including interpretive skills, through a variety of exploratory exercises. Class culminates in performance final. $11.40 lab fee. **Prerequisite: Completion of DRMA 120 with a 0.7 or higher, or instructor permission.**

DRMA 126
Stagecraft • 3.0 Credits
Formerly DRMA 126, THA 126
A study of the technical aspects of stage craft, and some design, with an emphasis on construction techniques. During lab times, students gain a working knowledge of shop tools, their application, shop safety, and crew protocol. $11.40 lab fee.

DRMA 127
Stagecraft • 3.0 Credits
Formerly DRMA 127, THA 127
A study of the technical aspects of stage craft, and some design, with an emphasis on construction techniques. During lab times, students gain a working knowledge of shop tools, their application, shop safety, and crew protocol. $11.40 lab fee.

DRMA 128
Stagecraft • 3.0 Credits
Formerly DRMA 128, THA 128
A study of the technical aspects of stage craft, and some design, with an emphasis on construction techniques. During lab times, students gain a working knowledge of shop tools, their application, shop safety, and crew protocol. $11.40 lab fee.

DRMA 198
Special Studies • 1.0–3.0 Credits
Formerly DRMA 198, DRMA 199
A class used to explore new coursework.

DRMA 199
Special Studies • 1.0–3.0 Credits
Formerly DRMA 198, DRMA 199
A class used to explore new coursework.

DRMA 200
Theatre Study Tour • 1.0–3.0 Credits
Formerly DRMA 200, THA 200
Students participate in a field trip experience to attend professional, commercial theatre. Destinations are selected among Ashland, Los Angeles, Seattle, San Francisco, Portland, and New York City. Students meet for analysis and discussions before and after attending the planned events. Fees apply. May be repeated for credit.

DRMA 215
Survey of Theatre History [H] • 5.0 Credits
Formerly DRMA 215, THA 215
This is a survey course that covers significant trends and innovations throughout theatre history from its inception in ancient Greece through the present. The emphasis, however, is on early theatre and its development and evolution.

DRMA 216
Acting for The Camera • 3.0 Credits
Formerly DRMA 216, THA 216
Instruction and practice in the basics of acting for both TV and film style productions: playing to the camera, shooting out of sequence, blocking, and other production considerations. **Prerequisite: Completion of DRMA 120 with a 0.7 or higher, or instructor permission.**

DRMA 220
Acting Studio • 1.0–3.0 Credits
A professional acting studio which utilizes class performances of scenes and monologues, as well as class discussions of theory. This course focuses on creating a character with internal truth (Stanislavskian-based) that is presented with an awareness of external craft including interpretive skills. Emphasis is placed on actor coaching and discovery. $11.40 lab fee. **Prerequisite: Completion of DRMA 120 with a 0.7 or higher, or instructor permission.**

DRMA 221
Acting Studio • 1.0–3.0 Credits
A professional acting studio which utilizes class performances of scenes and monologues, as well as class discussions of theory. This course focuses on creating a character with internal truth (Stanislavskian-based) that is presented with an awareness of external craft including interpretive skills. Emphasis is placed on actor coaching and discovery. **Prerequisite: Completion of DRMA 120 with a 0.7 or higher, or instructor permission.**

DRMA 222
Acting Studio • 1.0–3.0 Credits
A professional acting studio which utilizes class performances of scenes and monologues, as well as class discussions of theory. This course focuses on creating a character with internal truth (Stanislavskian-based) that is presented with an awareness of external craft including interpretive skills. Emphasis is placed on actor coaching and discovery. **Prerequisite: Completion of DRMA 120 with a 0.7 or higher, or instructor permission.**

DRMA 225
Touring Children's Theatre • 1.0–3.0 Credits
This course involves adapting and developing material from children's stories and original literature into theatrical presentations. Emphasis is on ensemble acting and improvisation skills. The second half of the quarter focuses on performance as group tours area grade schools. $11.40 lab fee.

DRMA 242
Design Essential • 3.0 Credits
Formerly DRMA 242, THA 242
This is an introductory course in developing basic skills in visualization, period research, graphic techniques, and script interpretation for theatre design; the focus being on scenic and costume design approaches.

DRMA 243
Stage Costuming • 1.0–3.0 Credits
Formerly DRMA 243, THA 243
An introductory course in the theory and practice of stage costume design and construction. $11.40 lab fee.

DRMA 244
Stage Makeup • 1.0–2.0 Credits
Formerly DRMA 244, THA 244
A course covering the basics of stage makeup design as an extension of characterization. Students learn the techniques of makeup application, including youth, middle-age, old-age, and specialty makeup.

DRMA 245
Sound Design • 1.0–3.0 Credits
Formerly DRMA 245, THA 245
An introduction to sound design for theatre. This class focuses on the equipment, typical set-ups for theatre, and the design concepts for the use of sound in today's theatre environments. **Prerequisite: Completion of DRMA 242 with a 0.7 or higher, or instructor permission.**

DRMA 246
Stage Lighting • 1.0–3.0 Credits
Formerly DRMA 246, THA 246
A beginning course in the theory and practice of stage lighting. This course is a "hands-on" approach to design and technical drawing. Lab time involves, "hang and focus" crew techniques and protocol, and special projects. $11.40 lab fee.

DRMA 248
Stage Management • 2.0 Credits
Formerly DRMA 248, THA 248
Examines the work of a stage manager. This course covers management of the stage and explores the "business" aspects of commercial theatre. Emphasis is on preparing students for stage managing in the commercial theatre and to prepare students for a theatre career with an enlightened view of theatre as a business.

DRMA 249
Special Studies • 1.0–3.0 Credits
Formerly DRMA 249, THA 249
Topics vary from among dramatic literature, acting styles, directing, theory criticism, aesthetics, history, and design. May be repeated for credit. **Prerequisite: Requirements to enroll in this class varies by quarter; please check with the instructor.**

DRMA 250
Directing for The Stage • 3.0 Credits
Formerly DRMA 250, THA 250
An introductory course in the theory and practice of directing for the stage. Students explore analysis, interpretation, and concept formulation of dramatic literature. Communication and collaboration is emphasized. **Prerequisite: Completion of DRMA 120 with a 0.7 or higher, or instructor permission.**

DRMA 298
Special Studies • 1.0–3.0 Credits
Formerly DRMA 298, DRMA 299
A class used to explore new coursework.

DRMA 299
Special Studies - Scene Painting • 1.0–3.0 Credits
Formerly DRMA 298, DRMA 299
A class used to explore new coursework.

Welding Technology

WT 100
Basic Welding [RE] • 3.0 Credits
This course provides a beginning level of theory and welding processes and applications being used today. This course includes safety, set-up and tear-down, present concepts, applications and methods, and operation of oxy-acetylene, electric arc, and MIG welding. This course is for the general student population and is not intended for welding majors. $37.50 per credit Welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee.

WT 101
Oxy-Acetylene Process [RE] • 1.0 Credit
A theoretical approach to give students an understanding in the areas of oxy-acetylene cutting, welding, and brazing of various metals. This class is for beginning, entry-level students. Subject matter focuses on background of the process and safety of this process and equipment, and its uses. **Prerequisite: Acceptance into the Welding Technology program and concurrent enrollment in WT 111.**

WT 103
Fundamentals Major Processes & Their Consumables [RE] • 5.0 Credits
This is the systems' approach to welded design, the design of welded joints and allowable for welds. Arc welding consumables are covered and students become familiar with various welding processes. **Prerequisite: Completion of DRW 106 and WT 107, both with a 2.0 or better, or instructor permission.**

WT 107
Fabrication Principles Review [RE] • 4.0 Credits
Introduces welding students to many mathematical procedures they will face in the fabrication shop. Topics include the manipulation of fractions and decimals along with an instructor handout intended to familiarize students with the reading of tape measures and rulers. Students

work problems involving calculating various dimensions from complex shapes, both fractional and decimal. In conjunction with these exercises, students are exposed to various geometry principles that are extremely beneficial in the fabrication shop for calculating sheet metal parameters, areas, volumes, and the weight of the finished product. The geometry portion also teaches how to calculate angles necessary to be cut and fitted in place in order to complete the finished product. **Prerequisite: Acceptance into the Welding Technology program.**

WT 108
Fabrication Technique I [RE] • 1.0 Credit
This course is designed to aid students in understanding the variables that greatly affect welding fabrication. **Prerequisite: Completion of BPR 106, WT 103, and WT 112, all with a 2.0 or higher, and concurrent enrollment in WT 181, or instructor permission.**

WT 111
Oxy-Acetylene Process Lab [RE] • 3.0 Credits
Gives students hands-on experience in a laboratory situation with the use of oxygen-acetylene equipment. Safety equipment set up/shut down, and manual and automatic cutting are covered, as well as identification of metals. $37.50 per credit Welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Acceptance into the Welding Technology program and concurrent enrollment in WT 101.**

WT 112
Introduction to Shield Metal Arc Welding [RE] • 1.0–10.0 Credits
An introduction to mild steel arc welding consisting of manipulative skills using the shield metal arc process with E6010 type mild steel electrode. $37.50 per credit Welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Acceptance into the Welding Technology program.**

WT 113
Advanced Shield Metal Arc Welding [RE] • 1.0–10.0 Credits
This course develops welding skills to meet AWS and ASME standards using the shielded metal arc process. $37.50 per credit Welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Completion of WT 112 with a 2.0 or higher, or instructor permission.**

WT 141
Shield Metal Arc Welding Certification [RE] • 1.0–10.0 Credits
Last course in the three-course series of the SMAW process. This course will finish working through the final open root outside corner joint lesson and transition to either an open root butt joint weld in the 2g, 3g, and 4g positions or a butt joint with a backing bar in the 2g, 3g, and 4g positions. Students will practice each position as individual lessons working towards demonstrating proficiency in all three positions to have the opportunity to take a welder qualification test to gain a structural welding certification to ASME sect. IX code standard. Successful completion of the open root 3 position plate test is required as a prerequisite to WT 211 Intro to pipe welding. $37.50 per credit Welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Completion of WT 113 with a 2.0 or better, or instructor permission.**

WT 181
Fabrication Techniques I Lab [RE] • 3.0 Credits
This course is designed to aid students in understanding the variables that greatly affect welding fabrication. Students get hands-on and field work experience utilizing a welding truck for structural fabrication, including hoisting and rigging. $37.50 per credit Welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Completion of BPR 106, WT 103, and WT 112, all with a 2.0 or higher, and concurrent enrollment in WT 108, or instructor permission.**

WT 195
Supervised Employment [RE] • 1.0–3.0 Credits
This is a supervised work experience involving the application and practice of skills and principles learned in the classroom and lab. The student will be placed with an employer where the environment will build on the student's area of career interest and prepare them to be productive employees. Grade is pass/no credit. **Prerequisite: Completion of WT 181 with a 0.7 or higher, or instructor permission.**

WT 201
Weldability of Metals [RE] • 5.0 Credits
This course introduces the concepts that explain the metallurgical behavior and determine the weldability of ferrous and non-ferrous metals. **Prerequisite: Completion of WT 108, WT 141, and WT 181, all with a 2.0 or higher, or concurrent enrollment, or instructor permission**

WT 202
Welding Inspection [RE] • 5.0 Credits
This course is designed to acquaint students with fundamental information and to help in the preparation for the AWS Welding Inspector Certification examination. **Prerequisite: Completion of WT 201 with a 2.0 or higher, or instructor permission.**

WT 208
Fabrication Technique II [RE] • 1.0 Credit
This course is designed to aid students in understanding the variables that greatly affect welding fabrication. **Prerequisite: Completion of WT 211 or WT 251 with a 2.0 or higher, and concurrent enrollment in WT 281, or instructor permission.**

WT 211
Introduction to Pipe Welding [RE] • 1.0–10.0 Credits
An introduction to pipe welding using mild steel pipe and the shield metal arc process with E6010/E7081 covered electrode. Develop the necessary welding skills and techniques to prepare for certification in accordance with ASME code. $37.50 per credit Welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Completion of either WT 141 with a 2.5 or higher, or instructor permission.**

WT 222
Gas Tungsten Arc Welding (Tig) [RE] • 1.0–10.0 Credits
This course is designed for the welding of plate and pipe using the gas tungsten arc welding (GTAW) process. Instruction stresses developing proper manipulative techniques and skills necessary to certify using the GTAW process. $37.50 per credit Welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Completion of WT 211 or WT 251 with a 2.0 or higher, or instructor permission.**

WT 231
Pipe Welding Certification [RE] • 1.0–10.0 Credits
This course emphasizes qualification tests for piping and tubing. $37.50 per credit welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Completion of WT 211 with a 2.0 or higher, or instructor permission.**

WT 251
Gas Metal Arc Welding (Mig) Certificate [RE] • 1.0–10.0 Credits
Formerly WT 151, WT 251

An introduction to gas metal arc welding consisting of manipulative skills using the gas metal arc process. $37.50 per credit welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Completion of WT 141 with a 2.0 or better, or instructor permission.**

WT 255
Structural Certification [RE] • 1.0–10.0 Credits
This course provides advanced development of arc welding skills to meet American Welding Society (AWS), and American Society of Mechanical Engineers (ASME) welder qualification standards. This is the certification class for the structural welding pathway of the AAS welding technology degree. $37.50 per credit welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Completion of WT 222 with a 2.0 or better, or instructor permission.**

WT 281
Fabrication Technique II Lab [RE] • 3.0 Credits
This course is designed to aid students in understanding the variables that greatly affect the welding of pipe fabrication. Students get hands-on and field work experience utilizing a welding truck for pipe fabrication including hoisting and rigging. $37.50 per credit welding course fee. $11.40 lab fee. $12.50 per credit welding equipment fee. **Prerequisite: Completion of WT 211 or WT 251 with a 2.0 or higher, and concurrent enrollment in WT 208, or instructor permission.**

Women's Studies

WS 110
Gender, Media, and Popular Culture [S/B] • 5.0 Credits
This course explores how men and women, as well as the qualities of "masculinity" and "femininity," are portrayed in print, visual, and news media, as well as the relationship between gender and cultural experiences, such as technology, sports, and violence. **Prerequisite: This course is cross-listed with SOC 110. Students completing WS 110 may not receive graduation credit for SOC 110.**

WS 155
Women's Cultural Heritage [H] • 5.0 Credits
An introductory course which presents an overview of the contributions women have made socially, politically, and culturally.

WS 215
Women in U.S. History [H] • 5.0 Credits
An introductory survey of women in U.S. history from pre-colonial times to the present. This course explores women's experiences, including historical attitudes about women's place in society and the realities of life and work for women. This course also explores how female roles in family, work, politics, and culture have changed over time. Emphasizes the diversity among women in terms of race, ethnicity, class, and sexuality. **Prerequisite: This course is cross-listed with HIST& 215. Students completing WS 215 may not receive graduation credit for HIST& 215.**

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Educational Technology Specialist, Educational Technology

Elizabeth Moon-Patrick
Start Year: 2011
Assistant Director for Financial Aid, Financial Aid

Fernando Morado Sanchez
Start Year: 2020
M.P.A., The Evergreen State College
Director for Transitional Studies, Transitional Studies

Jesus Mota
Start Year: 2015
M.B.A., Eastern Oregon University
B.A., Washington State University
A.A, A.A.S., Columbia Basin College
Dean for Career & Technical Education, Career & Technical Education

Sarah Murphy
Start Year: 2019
B.S., Utah State University
Director for Corporate Giving & Capital Projects, Foundation

Kelsey M. Myers
Start Year: 2004
M.Ed., B.A., Western Washington University
Assistant Vice President for Enrollment Services & Registrar, Student Services

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Start Year: 2024
B.A., Eastern Washington University
Retention and Transfer Specialist, Student Support Services - TRIO

Sarah North
Start Year: 2019
M.S., Western Governors University
Ed.S., Fort Hays State University
M.L.I.S., McGill University
B.A., Whitman College
Director for Library Services, Library

Rachel Olivera
Start Year: 2021
B.A., Washington State University
Completion Coach, Counseling & Advising

Amanda Orellana
Start Year: 2021
M.B.A., B.S., Western Governors University
Director for Compensation, Human Resources

Corey Osborn
Start Year: 2023
J.D., Temple University Beasley School of Law
Vice President for Human Resources & Legal Affairs, Administration

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Start Year: 2026
M.A., University of California
B.A., College of Idaho
Director for Upward Bound, Upward Bound

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Start Year: 2016
M.Ed., M.A.T., Grand Canyon University
B.S., Montana State University
Accessibility Specialist, Disability Support Services

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Start Year: 2022
B.A., Washington State University
Assistant Director for Accounts Receivable & Student Finance, Accounting Services

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Start Year: 2020
D.H.Sc., University of the Pacific
M.H.A., B.S.H.A.M., Colorado State University
A.A.S., Clark College
Director for Dental Programs, Health Sciences

Clarissa Pruneda
Start Year: 2022
B.A., University of Washington
Director for Workforce Development, Career & Technical Education

Daniel Quock
Start Year: 2017
M.S., Missouri State University
Assistant Dean for Student Conduct & Student Life, Student Life

McKenna Rains
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M.S., Western Governors University
Assistant Registrar, Student Records

Board of Trustees, Faculty & Administrative Exempt

Elizabeth Ramirez
Start Year: 2023
B.A., Eastern Washington University
Assistant Director for Enrollment Services, Enrollment Services/Hawk Central/Student Records

Martin Ramirez
Start Year: 2020
Completion Coach/Head Men's Soccer Coach, Counseling & Advising/Athletics

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M.S., Western Governors University
B.A., Washington State University
Director for Career Services, Career Services

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M.S., B.S., University of Idaho
Director for Disability Support Services, Disability Support Services

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B.S., Central Washington University
Director for Technology Services, Technology Services

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Executive Assistant to the President & Board of Trustees, Administration

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B.A.S., A.A.S., Columbia Basin College
Vice President for Administrative Services, Administration

Rosario Rodriguez-Erechar
Start Year: 2023
M.P.A., Eastern Washington University
Director for Student Activities, Student Activities

Ninfa Rodriguez
Start Year: 2025
B.A., Eastern Washington University
Director for MESA, Math, Science & Engineering

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Start Year: 1997
M.A., B.Ed., Gonzaga University
A.A., Bellevue Community College
Athletic Director, Athletics

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M.A., Washington State University
Assistant Athletic Director, Athletics

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B.A., Washington State University
Financial Aid Outreach Specialist, Student Recruitment

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Completion Coach/Head Baseball Coach, Counseling and Advising/Athletics

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Assistant Director for Workforce Education Center, Workforce Education Center

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Completion Coach, Counseling & Advising

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Start Year: 2026
M.L.S., University of Arizona
B.S., Colorado State University
Director for Campus Security Risk, Emergency Management, Security

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Capital Projects & Space Planning Coordinator, Administrative Services

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Workforce Education Training Specialist, Workforce Education Center

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Start Year: 2002
M.Ed., B.A., Northwest Nazarene University
Dean for Student Retention & Completion, Counseling & Advising

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Director for Energy Learning Center, Career & Technical Education

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Start Year: 2011
B.S., Western Governors University
A.A.S., Columbia Basin College
Assistant Director for System Administration & Development, Technology Services

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Ph.D., University of Utah
Dean for Arts, Humanities & Communication, Arts, Humanities & Communication

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Completion Coach, Counseling & Advising

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Retention Specialist, Transitional Studies

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Start Year: 2016
M.S.W., Eastern Washington University
B.A., Washington State University
Director for Academic Success Center, Academic Success Center

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B.A., Western State Colorado University
Completion Coach/Head Women's Basketball Coach, Counseling & Advising/Athletics

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Start Year: 2021
M.Ed., University of Southern California
B.A., Claremont McKenna College
Director for Development - Individual Giving, Foundation

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Start Year: 2008
B.A.S., A.S., A.A., Columbia Basin College
A.A.S., A.S., Spokane Falls Community College
Assistant Director for Educational Technology, Teaching & Learning Center for Excellence

Richard Starr
Start Year: 2023
B.S., City University of Seattle
A.A.S., Columbia Basin College
Assistant Director for IT Infrastructure & Security, Technology Services

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M.Ed., University of Missouri
Executive Assistant to the Vice President for Student Services, Student Services

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M.Ed., University of Idaho
Completion Coach/Head Volleyball Coach, Counseling & Advising/Athletics

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Director for Teaching & Learning Center for Excellence, Teaching & Learning Center for Excellence

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Start Year: 2003
B.S., University of Idaho
Director for Emergency Services, Health Sciences

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Start Year: 2018
M.B.A., Gonzaga University
Dean for Math, Science & Engineering, Math, Science & Engineering

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Start Year: 2017
M.Ed., University of Washington
Director for Student Recreation & Wellness, Student Recreation & Wellness

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Start Year: 2024
M.A.T., Eastern Oregon University
Grant Writer, Grant Services

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Completion Coach, Counseling & Advising

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Start Year: 1997
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M.N., B.S.N., Washington State University
Director for Nursing Programs, Health Sciences

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Associate Professor & Director, Medical Assisting

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M.S., Andrews University
B.S., Walla Walla University
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Senior Professor, Spanish

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Start Year: 2005
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Certified Welder
Senior Associate Professor, Welding

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Start Year: 2017
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M.P.H., University of Washington
B.A., University of Puget Sound
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Associate Professor, Adult Basic Education (ABE)

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M.A., Seattle University
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Assistant Professor & Director, Respiratory Therapy

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Instructor, Education

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Professor, Nursing

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M.A., Pacific Lutheran University
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Senior Associate Professor, Human Development (HDEV)

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Assistant Professor, Political Science

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B.A.S., Columbia Basin College
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Chad Garcia
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Ph.D., University of Washington
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Senior Associate Professor, Mathematics

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Associate Professor & Director, Automotive Technology

Scott Gevaert
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Ph.D., The University of Georgia
Assistant Professor, Biology

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B.S., Salisbury University
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Ph.D., M.S., M.S., University of Wyoming
Associate Professor, Biology

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Ph.D., Purdue University
Assistant Professor, Chemistry

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Ph.D., M.S., The City University of New York
M.P., M.S., University of Hyderabad
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Ph.D., M.A., University of California, Santa Barbara
Assistant Professor, Human Development

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M.B.A., Arizona State University
B.S., California State University, Chico
Senior Associate Professor, Project Management

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M.S., Kaplan University
B.S., University of Phoenix
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B.A.S., Bellevue College
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Assistant Professor & Director, Radiologic Technology

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Ph.D., University of Oregon
B.S., University of Idaho
Senior Professor, Biology

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Ph.D., University of Washington
M.A., B.A., Simon Fraser University
Professor, History

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B.S.N., Walla Walla College
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Instructor, Applied Management

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M.Ed., Concordia University Portland
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M.M., University of Texas at Austin
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B.S.N., Western Governors University
A.D.N., Walla Walla Community College
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A.S.N., Walla Walla Community College
A.A., Walla Walla Community College
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B.S., Washington State University
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B.A., Eastern Washington University
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B.A., University of Providence
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Maria Rodriguez
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Instructor, Worker Retraining

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B.A.S., A.A.S., A.A.S.-D.T.A., Columbia Basin College
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Christopher Royce
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Ph.D., Washington State University
M.Ed., Heritage University
B.A., Inner Mongolia Teachers' University
Senior Professor, Intercultural Studies

Kira Tomlinson
Start Year: 2023
M.S., Western Governors University
Assistant Professor, Nursing (LPN-BSN)

Sarah Tragesser
Ph.D., Colorado State University
Assistant Professor, Psychology

Kim Trinh
Start Year: 2018
M.A., University of Washington
B.A., Whitman College
A.A., Highline College
Senior Associate Professor, English

William Ulbricht
Start Year: 2024
M.S., Virginia Commonwealth University
Assistant Professor, Digital Marketing

Jose Varela
Start Year: 2025
A.A.S., Columbia Basin College
Instructor, Manufacturing Technology

Christopher Wagar
Start Year: 2013
M.Ed., Western Governors University
B.A., Washington State University
Associate Professor, Adult Basic Education (ABE)

Clifford Wakeman
Start Year: 1994
M.A., San Francisco State University
B.A., University of California
A.A., Modesto Junior College
Senior Associate Professor, English

Board of Trustees, Faculty & Administrative Exempt

Tracy L. Walker
Start Year: 2001
M.F.A., University of Cincinnati
B.A., M.A., Central Washington University
Professor, Art

Bruce A. Walker, Jr.
Start Year: 2014
M.M., Central Washington University
B.Mus., Southern Illinois University Edwardsville
Associate Professor, Music

Brandie White
Start Year: 2024
B.A., Heartland Baptist Bible College
A.A.S., Columbia Basin College
Assistant Professor, Radiologic Technology

Kristina Wildenborg
Start Year: 2019
D.N.P., Post University
M.S., B.S., Western Governors University
Senior Associate Professor, Nursing (Acute Care)

Nicole Williams
Start Year: 2025
B.A.S., A.A.S., Columbia Basin College
Assistant Professor & Director, Dental Assisting

Thomas Williams
Start Year: 2022
Ph.D., Liberty University
M.S., Troy University
M.S., Auburn University
Associate Professor, Project Management

Collin Wilson
Start Year: 2016
D.M.A., M.M., University of Illinois
Senior Associate Professor, Music / Concert Band Director / Instrumental Director

Debbie L. Wolf
Start Year: 1999
B.A., Washington State University
A.A.S., Columbia Basin College
Senior Professor & Director, Computer Science

Amy Wortley
Start Year: 2019
M.A., Eastern Washington University
Senior Associate Professor, English

James L. Wutzke
Start Year: 2006
M.S., B.A., Washington State University
Senior Associate Professor, Communications

Carol D. Wysocki
Start Year: 1995
Ph.D., M.B.A., Washington State University
B.S., Eastern Oregon University
B.S., Iowa State University
Senior Associate Professor, Business

Sharon B. Yedidia
Start Year: 2011
M.A., University of Bath
B.A., Anglia Polytechnic University
Senior Associate Professor, Spanish Interpreting / Spanish Medical Interpreter Director

Ying Yu
Start Year: 2004
M.S., University of Illinois at Urbana-Champaign
B.A., Shaanxi Normal University
Professor, Library Services

Azhar Zaheer
Start Year: 2019
M.B.A., The University of Utah
M.E.M., Duke University
Senior Associate Professor, Business

Academic Calendar

Fall Quarter 2026

September 21 to December 10, 2026

September 7 - Holiday: Labor Day
September 8 and 10 - Fall Quarter FYI
September 21 - First Day of Fall Quarter
November 11 - Holiday: Veterans Day
November 12 - Professional Development Day for Staff - Campus Closed. Classes after 4:30 pm will be held.
November 25 - Non-Instructional Day
November 26 and 27 - Holiday: Thanksgiving & Native American Heritage Day
December 10 - End of Fall Quarter
December 15 - Grades Available
December 25 - Holiday: Christmas

Instructional Days: 54
Non-instructional Days: 1
Teaching & Learning Days: 1

Winter Quarter 2027

January 4 to March 25, 2027

January 1 - Holiday: New Years Day
January 4 - First Day of Winter Quarter
January 18 - Holiday: Martin Luther King, Jr. Day
January 22 - Professional Development Day for Staff - Campus Closed. Classes after 1 pm will be held.
February 15 - Holiday: President's Day
February 16 - Professional Development Day for Staff - Campus Closed. Classes after 4:30 pm will be held.
March 25 - End of Winter Quarter
March 30 - Grades Available

Instructional Days: 55
Teaching & Learning Days: 2

Spring Quarter 2027

April 5 to June 16, 2027

April 5 - First Day of Spring Quarter
May 31 - Holiday: Memorial Day
June 16 - End of Spring Quarter
June 17 - Graduation (No classes/exams this day)
June 18 - Observed Holiday: Juneteenth
June 22 - Grades Available

Instructional Days: 52
Non-instructional Days: 1

Summer Quarter 2027

June 28 to August 20, 2027

June 28 - First Day of Summer Quarter
July 5 - Observed Holiday: Independence Day
August 20 - End of Summer Quarter
August 24 - Grades Available

Instructional Days: 39

Calendar Terms and Definitions

Academic Year
Four consecutive quarters beginning with summer quarter.

End of Quarter
This is the last day of scheduled classes for the quarter.

Graduation
Graduation ceremony scheduled by the College.

Instructional Day
A contract day in which classes are scheduled for students and faculty.

Instructional Year
Three consecutive academic quarters beginning with fall quarter.

Non-Instructional Days
Days within the instructional year which the College is open, but there are no classes scheduled. These are not contract days for the instructional faculty. They may be contract days for the counselor and librarian faculty.

Professional Development Days
Three scheduled in-service days each instructional year during which faculty engage in assessment work required by the College's assessment plan for accreditation purposes and/or in scheduled professional development activities related to scholarship of teaching and learning.