CBC | CATALOG

Columbia Basin College

2022-2023

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Introduction

President's Welcome

Welcome to Columbia Basin College! Since 1955, CBC has been the gateway to a 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 an applied bachelor's 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 broadbased 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 more than 65 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 11,000 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. The NWCCU's most recent action on CBC's status on July 27, 2017 was to reaffirm accreditation. CBC's next accreditation report will be the 2023 Policies, Regulations, and Financial Review.

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 at columbiabasin.edu/accreditation.

Research and Instructional Assessment

Columbia Basin College's commitment to its mission and goals requires conducting regular evaluations of progress in achieving those goals. Testing and surveying at various points in students' educational journeys are essential parts of this evaluation process. In addition, students may be asked to cooperate in various surveys, interviews, focus groups and other data collection efforts by the College.

Since the goals of CBC are directed to the education of the whole person, student achievement can be measured only by evidence concerning the whole person. To protect confidentiality of data, the Office of Institutional Research never releases personal information about individuals and, wherever possible, avoids attaching names to personal data during analysis.

College-Wide 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 college-wide 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 are available on program websites. College-wide learning outcomes will be achieved by all degree-earning students by the end of their time at the college.

CBC's College-Wide 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

- Develop a sense of number and pattern
- Analyze, evaluate and synthesize symbolic statements and quantitative arguments

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

Introduction

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

CBC's Bachelor's Degrees

Columbia Basin College offers two bachelor's degree types, Bachelor of Applied Science and Bachelor of Science. The following is a list of our current offerings:

- Applied Management (with optional concentration in Agriculture or Healthcare Administration) (BAS)
- Cyber Security (BAS)
- Dental Hygiene (BAS)
- Health Physics (BAS)
- Information Technology (BAS)
- Project Management (with optional concentration in Construction) (BAS)
- Teacher Education (with Early Childhood Education Endorsement) (BAS)
- Bachelor of Science in Nursing (RN-BSN)

All of CBC's bachelor's degrees are approved by the Northwest Commission on Colleges and Universities and the Washington State Board for Community and Technical Colleges.

CBC 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 Sciences 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 next to the Richland Public Library on Northgate Avenue. This campus now hosts a variety of CBC classes. Additionally, the Richland Health Science Center as well as the Medical Science Center nearby support health science programs.

For maps, driving directions and parking information, visit columbiabasin.edu/maps.

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 coumbiabasin.edu/foundation.

Financial Information

Student Status for Tuition & Fee Purposes

Full-time student: student registered for 10 or more credits per quarter.

Part-time student: student registered for 9 or fewer credits per quarter.

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 for In-State Tuition

A resident student is one who is a U.S. citizen and has met specific requirements demonstrating permanent residence in the state of Washington. Permanent residence in the state of Washington is evidenced by physical presence in the state, as well as having a sufficient number of permanent Washington documents. Documentation should be dated one year and one day prior to the commencement of the quarter for which a student is applying for residency status.

These documents can include:

- Voter's Registration
- Washington State Driver's License
- Car Registration
- Bank Account Statements
- Federal Tax Return (required)

Students wishing to change their residency classification must complete a residency questionnaire and provide necessary documentation. Application for reclassification prior to registration into classes is preferred. Residency reclassification must take place prior to the 30th calendar day of classes of the quarter residency is requested. Documentation received after the 30th calendar day will be considered for the following quarter.

Special tuition allowances may apply to some eligible non-citizens, Washington higher education employees and to military personnel and their dependents. For further information, contact the Student Records Office.

Tuition & Fees 2022-23

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

	Washington Resident	U.S. Non Resident	Non U.S. Resident International F-1 Visa
Per Credit Charges:			
State Tuition & Fees			
Credits 1-10	119.13	176.74	306.92
Credits 11-18	58.94	66.61	66.61
Credits 18+	106.88	160.20	294.67
CBC Comprehensive Fee	4.00	4.00	4.00
CBC Instructional Support Fee	9.00	9.00	9.00
CBC Technology Fee	5.00	5.00	5.00
Per Credit:	**137.13**	**194.74**	**324.92**
Per Quarter Charges:			
Safety & Security, Rec Center Fee	82.50	82.50	82.50
Total Charges per Credit:			
1	219.63	277.24	407.42
2	356.76	471.97	732.34
3	493.89	666.71	1057.26
4	631.02	861.44	1382.18
5	768.15	1056.18	1707.10
6	905.28	1250.91	2032.02
7	1042.41	1445.65	2356.94
8	1179.54	1640.38	2681.86
9	1316.67	1835.12	3006.78
10	1453.80	2029.86	3331.70
11	1527.74	2111.47	3413.31
12	1601.68	2193.08	3494.92
13	1675.62	2274.69	3576.53
14	1749.56	2352.30	3658.14
15	1823.50	2437.91	3739.75
16	1893.44	2515.52	3817.36
17	1963.38	2593.13	3894.97
18	2033.32	2670.74	3972.58
19	2151.20	2841.93	4278.25
20	2269.08	3013.13	4583.92
21	2386.96	3184.33	4889.59
22	2504.84	3355.53	5195.26

CBC's BAS program costs may vary; please visit https://www.columbiabasin.edu/i-am/current-hawk/pay-for-college/tuition-affordability.html **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 day of the quarter	6th day of the quarter and within first 20 calendar days
Summer	3rd 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 and lab 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 may be applied to future CBC charges or redeemed in cash from Accounting Services (cash balances permitting).

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 acceptable payments and their balance is 120 days past due, their account may be forwarded to an outside collection agency.

Financial Aid

Financial Aid personnel assist Columbia Basin College students and their parents with finding funding for basic educational costs. Consumer information is available at columbiabasin.edu/consumer. Financial aid programs at CBC follow policies and philosophies established nationally, statewide and institutionally. They are based on the assumption that the family is primarily responsible for paying educational costs. Financial aid is intended only to fill the gap between the family's contributions and the student's yearly academic expenses. 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) at fafsa.gov. 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) at wsac.wa.gov/wasfa. 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 at columbiabasin.edu/financialaid/sap. 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 at columbiabasin.edu/financialaid/sap. 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 columbiabasin.edu/opportunity.

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 columbiabasin.edu/scholarships 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.

Employment

(Refer to Human Resources' Student Employment in the Student Resources section of the catalog for more details)

Federal Work Study
Federal program to provide jobs on campus to financially qualified students. Must be enrolled in at least six degree-required credits at CBC.

Washington State Work Study
Washington State program to provide career-related employment off campus to financially qualified students. Must be enrolled in at least six degree-required credits at CBC.

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 columbiabasin.edu/studentemployment.

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. See the Worker Retraining section under Student Resources in this catalog for specific details or go to columbiabasin.edu/workerretraining 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.

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

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 columbiabasin.edu/runningstart.

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. The Application for Admission may be filled out online at columbiabasin.edu/apply. 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 columbiabasin.edu/assessment. Additionally, students who have prior college-level English or math classes may submit an official transcript(s) to Student Records to determine placement results.

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 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 institutionally accredited (see the list of approved accrediting agencies under "Transfer Information") institution
- Have completed a minimum of 90 college-level credits from an institutionally accredited (see the list of approved accrediting agencies under "Transfer Information") institution

Applicants who wish to pursue a Bachelor of Science in Nursing (RN-BSN) degree must have completed an associate degree in Nursing.

Check with the program for specific admission requirements and prerequisites. Program information is available at columbiabasin.edu/BAS.

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 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 at columbiabasin.edu/internationalstudent.

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 tution 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 15 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.

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 and to access the application, visit columbiabasin.edu/highschoolcompletion.

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 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 of 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. 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 Enrichment Program

Eligible high school students may take courses at Columbia Basin College for enrichment or to meet high school graduation requirements. This program is designed to provide students additional learning opportunities not currently available through school district resources. To be eligible for this program, high school students must be 16 years or older and a junior or senior in high school.

Eligible students must:

- Complete and submit an Application for Admission
- Submit an official high school transcript
- Submit the High School Enrichment Release Form signed by parent or legal guardian and by an appropriate high school official
- Complete the College Placement test (if applicable)

High School Enrichment students are eligible to enroll in two courses per quarter and will be responsible to pay full tuition, student/class fees and to purchase other course materials (i.e., books).

Admissions

Admission to HEP

(High School Equivalency Program)

The High School Equivalency Program (HEP) is funded by the U.S. Department of Education Grant No. S141A200021 as a secondary migrant education program designed to meet the special needs of migrant and seasonal farmworkers, and their families, in pursuit of the GED®, a certificate of high school equivalency. The intent of the program is to assist qualified students in preparing for the GED® test and to help them place in a post-secondary education/training program, a career position or the military.

Admission to the program is open to migrant or seasonally-employed agricultural workers and their immediate family members who:

- Within the past 24 months, have worked a minimum of 75 days in migrant/seasonal farmwork; or been eligible or have participated in a migrant education program or in a JTPA Section 402 program (now WIA Section 167)
- Are 16 years of age or older
- Are not currently enrolled in high school
- Have not earned a high school diploma or its equivalent
- Demonstrate a willingness to study in preparation for the GED® exam
- Pass entrance exams
- Demonstrate a willingness to conform to the rules of the program

For more information, call 509-542-4775 or 509-542-4558 or visit columbiabasin.edu/hep.

Admission to High School+ (HS +)

High School+ (HS+) is a competency-based school equivalency program for adult learners age 21 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 shall not register for more than 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 register prior to the beginning of each quarter based on the number of cumulative credit hours they have earned (a maximum of 60 credit hours transferred from another institution may be applied). New students to CBC will be assigned a registration time after completing the admission and getting started process. 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 counseling@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. Please contact the Assessment Center for more information. 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 three days* of fall, winter or spring quarter. Schedule changes made on the third day of the quarter do require instructor approval. Students may withdraw from a class through the 40th day* of the quarter. Students must complete a registration form and submit it to Hawk Central or use web registration.

For summer session and classes scheduled for less than a full quarter, students should contact Student Records for deadline dates.

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.

Repeat Course Rule

Students may not register more than three times for the same course — 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 5.40.25)

Priority Registration for Veterans

CBC provides current and new student veterans, service members and family members using dependent benefits the ability to register for classes one day 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.

Student Orientations

All new, degree- and certificate-seeking students, students who have earned zero credits and transfer students 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 institutionally accredited college or university to count. See the list of approved accrediting agencies under "Transfer Information") 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.

Student Identification Card

Students enrolled at Columbia Basin College should obtain a student identification card. A student ID card is required for checking out library materials, including laptops, and using the Fitness Center. Student ID cards may also be used to participate in College and community activities. In order to obtain a CBC Student ID card, students must be enrolled, show photo ID and have paid tuition and fees in full or be enrolled in the Student Tuition Easy Payment Plan (STEPP).

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 and Programs 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 published in the Academic Deadlines calendar. Students must submit a registration form to Hawk Central or withdraw online by the published deadline to guarantee the accuracy of their permanent records. Students may withdraw from full-term courses with no record on their transcripts if the withdrawal has been processed on or before the 10th day* of the quarter. Students withdrawing from full-term courses after the 10th* day but on or before the 40th day* of the quarter shall have a W recorded on their transcripts.

For summer quarter and all alternative class schedules such as Fast Track courses, students should contact Student Records for withdrawal deadlines.

Students are encouraged to meet with a Counselor or 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 by the Registrar but only for extenuating circumstances and must be accompanied by appropriate and qualified documentation. Refer to the Petition for Exception to Deadline Policy (PED) for further information at columbiabasin.edu/ped.

College-Initiated Withdrawals

College-Initiated Withdrawals are not eligible for refunds.

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 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 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 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 of the class.

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 is determined by the length of the quarter or class and may be different for summer quarter and 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.

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 and health or safety issues. Any student withdrawn from a class for administrative withdrawal will receive a WA on their transcript to indicate a College-Initiated Withdrawal.

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 website at columbiabasin.edu/transcripts. Transcripts will not be released to a third party without written permission of the student. Unofficial transcripts are available at no cost on the College's website at columbiabasin.edu/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 Procedure

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. The policy addresses the rights and responsibilities of students and the process for review and appeal in transfer credit disputes.

- All credits are subject to approval by the Student Records Office based on credit equivalency, applicability to the degree or certificate and the transfer institution's accreditation. The College reserves the right to accept or reject credits earned at other institutions.
- Approved institutional accreditation agencies are as follows: Accrediting Commission for Community and Junior Colleges, Western Association of Schools and 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); WASC Senior College and University Commission (WSCUC).
- In general, it is CBC policy to accept credits transferred from institutionally accredited institutions (see the list of approved accrediting agencies in the prior bullet), provided the credit is essentially equivalent in academic level and content to courses offered at CBC. Credits earned at institutions during their candidacy for accreditation by an institutional accrediting agency (see the list of approved accrediting agencies in the prior bullet) 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.
- Prior to evaluating transfer credits, students must submit a completed Application for Admission. The evaluation will be completed when official transcripts from all previously attended institutions have been received by the Student Records Office. A transcript is official if it is sent directly from the sending institution to CBC. Official transcripts can be sent via electronic transmission directly to CBC from any community college in the state of Washington or electronically through an authorized, online service provider. A transcript may be hand-delivered to CBC only if it is sealed in an official envelope from the sending institution. Transcripts are evaluated based on the quarter/year the student plans to start and the order in which they are received.
- When the evaluation has been completed, students will receive a Worksheet for Evaluation of Transfer Credit showing a course-by-course equivalency and the total number of credits accepted. The evaluation will be sent via U.S. mail and/or CBC email.
- 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 at columbiabasin.edu/i-am/current-hawk/student-resources/transfer-of-credit.
- 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. Students are required to have an official evaluation on file for subsequent advising appointments.

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) & Dual Credit

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. Not all courses at CBC are designated appropriate for credit by examination or evaluation. Each department determines eligible courses and the evaluation method required for students to demonstrate mastery of course content. Academic Credit for Prior Learning can be awarded through one of the following options:

- Experiential Learning
- Course Challenge
- Military Credit and Experience
- College Level Examination Program (CLEP)
- DANTES Subject Standardized Test (DSST)

The following restrictions apply to the awarding of Academic Credit for Prior Learning (ACPL):

- Students must be currently enrolled at CBC and have a CBC academic record before credits will be awarded. Course Challenge and Experiential Learning require 15 or more credits earned at CBC with a 2.0 or better cumulative college-level GPA before credits will be awarded.
- Credits may be awarded only if the learning experiences fall within the courses CBC offers.

Transfer Information

- No credit will be awarded if the same course is taken at CBC or any other college.
- No more than one-fourth of the total credits required for a CBC associate degree/certificate or one-fourth of the minimum upper-level course credits required for a CBC bachelor's degree may be earned through the prior learning process.
- Prior learning credits do not count toward the minimum residency requirement.
- Credits for prior learning will be recorded with a P grade (with the exception of course challenge, for which a decimal grade is awarded).
- Credits for prior learning recorded as P graded courses are limited to use within the restricted electives of the Associate in Arts and Sciences degree.
- A non-refundable fee per credit must be paid for Experiential Learning and Course Challenge assessments.
- For Military Credit and Experience only, a maximum of three Physical Education credits will be awarded for physical conditioning. All other military credit is limited to the 15-credit maximum restricted electives for the Associate in Arts and Sciences degree.

Dual credit can be awarded through one of the following options:

- College Board Advanced Placement (AP)
- International Baccalaureate (IB)
- Cambridge International (CI)

The following restrictions apply to the awarding of dual credit:

- Students must be currently enrolled at CBC and have a CBC academic record before credits will be awarded.
- Credit will be awarded on the basis of official (AP,IB, CI) results, not transcript notation.
- No credit will be awarded if the same course is taken at CBC or any other college.
- No more than one-fourth of the total credits required for a CBC associate degree/certificate or one-fourth of the minimum upper-level course credits required for a CBC bachelor's degree may be earned through the dual credit process.
- Dual credit does not count toward the minimum residency requirement.
- Credits for dual credit will be recorded with a P grade and may be used within any discipline, as they're not restricted.

For further information about prior learning or dual credit, visit columbiabasin.edu/ACPL.

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 for 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 by each department and fall within the regular curriculum of the College. No credit will be awarded if the student has earned credit in a similar course. The application and procedure for Experiential Learning credits is available at columbiabasin.edu/ACPL.

Course Challenge

If a student has established a transcript record at CBC and believes their previous experience has provided the student with competencies essential for passing a course, the student may request a course challenge. 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. Individual departments determine which, if any, of the courses offered may be challenged. Course challenge is granted only for classes that are designated as course challenge eligible courses by each department. The application and procedure for a course challenge is available at columbiabasin.edu/ACPL.

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 the 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. Official military transcripts must be received by the end of the student's second quarter at CBC.

College Level Examination Program (CLEP)

A score of 50 in the specific examination will grant credit in selected subjects. Students must submit their score reports to the Student Records Office for evaluation. For further information about CLEP credits, visit columbiabasin.edu/ACPL.

DANTES Subject Standardized Test

A score of 500 may grant credit in selected subjects. Students must submit their score reports to the Student Records Office for evaluation. For further information about DANTES Subject Standardized Test credits, visit columbiabasin.edu/ACPL.

College Board Advanced Placement (AP)

Washington State community and technical colleges will award **unrestricted elective** credit for an Advanced Placement (AP) score of four or higher. Credit will be awarded on the basis of official AP results, not transcript notation. 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. No credit will be awarded if the same course is taken at CBC or any other college.

CBC may award college credit when a student completes the College Board's Advanced Placement examinations with a score of three or higher. AP courses are developed by the College Board and taught by high school teachers. AP exams and their equivalencies at CBC can be found on our website at columbiabasin.edu/ACPL.

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 inside and outside of Washington State. If a student plans to transfer to one of these schools, we encourage them to explore how AP credits may be applied at that institution.

Students must order their score reports from College Board to be sent to the CBC Student Records Office for evaluation. For more information, please visit columbiabasin.edu/ACPL.

Transfer Information

International Baccalaureate/ Cambridge

International Baccalaureate (IB)

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. Credit will be awarded on the basis of official IB results, not transcript notation. 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. No credit will be awarded if the same course is taken at CBC or any other college.

CBC may award college credit when a student completes International Baccalaureate examinations with a score of four or higher. The IB program, available in several countries, rigorously prepares students for a college-level liberal arts education while they are still in high school. IB exams and their equivalencies at CBC can be found on our website at columbiabasin.edu/ACPL.

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 inside and outside of Washington State. If a student plans to transfer to one of these schools, we encourage them to explore how IB credits may be applied at that institution.

Students must order their score reports from College Board to be sent to the CBC Student Records Office for evaluation. For more information, please visit columbiabasin.edu/ACPL.

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. Credit will be awarded on the basis of official CI results, not transcript notation. 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. No credit will be awarded if the same course is taken at CBC or any other college. CI exams and their equivalencies at CBC can be found on our website at columbiabasin.edu/ACPL.

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 both inside and outside of Washington State. If a student plans to transfer to one of these schools, we encourage them to explore how CI credits may be applied at that institution.

Students must order their score reports from Cambridge International to be sent to the CBC Student Records Office for evaluation. For more information, please visit columbiabasin.edu/ACPL.

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 Counselors, Completion Coaches and Retention Specialists 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:

- 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 institution. 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 CBC Counselor, Completion Coach or Retention Specialist 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 CBC Counselor, Completion Coach or Retention Specialist.
- 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, Counselors or 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 Center, 509-542-5505. To learn more about the Bridges Program, visit tricities.wsu.edu/bridges.

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 T Building.

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

Academic Information

Attendance

Students who choose to attend Columbia Basin College also choose to participate actively 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 "College-Initiated Withdrawal" section to review how student 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 the CBC website at columbiabasin.edu/mycbc approximately one week after the end of the quarter.

CBC uses a decimal grading system for all lecture and laboratory courses numbered 100 and above, and for MATH 40, 50, 60, 62, 70 and 72.

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. Contact the Student Records Office for the proper procedures.

All buy-time options, cooperative work education programs, supervised employment, practica, workshops, FYI and all courses numbered below 100 will be graded in either the P or Z category, except MATH 40, 50, 60, 62, 70 and 72.

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 receiving a P grade may use a maximum of 10 credits* earned through classroom instruction from an institutionally accredited (see the list of approved accrediting agencies under "Transfer Information") college. These credits will be applied toward degree requirements as follows:

- Associate in Arts and Sciences and Associate in Science Transfer Degrees: electives
- Associate in Applied Science: Major and Major Support (consult with program advisor or completion coach for approval)
- Experiential learning credit, College Level Examination Program (CLEP) and DANTES Subject Standardized Test (DSST) is limited to use within the restricted electives

With the exception of College Board Advanced Placement (AP), International Baccalaureate (IB) and Cambridge.

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. 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 numbered 100 and above, 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

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. 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 arbitrary, prejudiced or capricious.

If a student has documentary evidence that an end-of-course course grade was assigned incorrectly, they may initiate an appeal of that grade. Students should understand, however, that a grade appeal may result in a higher grade, a lower grade or no change to the grade. Students may not use the grade appeal process as a means of voicing non-specific or unsubstantiated complaints about grades, grading policies or grading standards, nor will the College act on such complaints. Students may not appeal a final grade by contesting the grades on individual assignments after the fact or by objecting to the published grading standards after the course has ended. (Questions about grades or grading criteria should be raised as assignments are graded and returned.) Grade appeals may involve final examinations, term papers or other end-of-course assignments that are graded and returned to students in the last week of classes or after the last day of class, for which, as a result of timing, the student doesn't have time to seek clarification or redress before the term ends.

A grade appeal must be initiated within the first 20 calendar days of the academic term succeeding the term in which the grade in question was assigned.

A student who wishes to appeal a grade will take the following steps:

1. The student will gather all relevant documentation regarding the assigned grade, including copies of the course grading policies and standards, all graded assignments that bear on the appeal (with comments, scores, rubrics or other faculty member feedback) and copies of correspondence with the faculty member relevant to the student's grade, especially attempts to clarify or correct the grade.
2. The student will meet with the faculty member to discuss the course grade. If the faculty member is no longer employed by CBC or is otherwise unavailable, the student will meet with the appropriate division dean. Deans will not take action on a grade appeal unless the student has been unable to meet the faculty member and has made a good-faith effort to do so during the specified time period.
3. The student will explain the specific basis for the grade appeal and provide the supporting documentation.

A faculty member who receives a grade appeal will take the following steps:

1. If the student has evidence of an error, the faculty member will meet with the student within the first 30 days of the term succeeding the term in which the grade was assigned.
2. The faculty member will review the evidence and discuss the basis of the student's appeal; if an error is verified, they will recalculate the student's grade as appropriate.
3. If the recalculation results in a different grade, the faculty member will submit a grade change eform to correct the grade within 10 days of the recalculation.

At his or her discretion, the faculty member may resolve a grade issue informally in discussion with the student.

After this process is followed, students may request a meeting with the dean. The dean will gather and review all relevant information including meeting with the faculty member. The decision made by the dean will be considered final.

Grade appeals may involve final examinations, term papers or other end-of-course assignments that are graded and returned to students in the last week of classes or after the last day of class, for which, as a result of timing, the student does not have time to seek clarification or redress before the term ends.

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, an asterisk symbol (*) is marked 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 the Counseling/Advising Center. Students must meet with a Counselor or 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 (an asterisk symbol (*)) 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 "R" posted next to the grade(s) on the transcript and that grade will be excluded from the GPA computation. Courses not eligible to repeat are those with letter grades (eg. 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. An R will be posted next to the lowest grade and that grade will be removed from the GPA computation.
- A notation will be entered on the CBC transcript indicating the course was repeated via transfer.

Quarterly Honors Designations

Students who earn 12 credits in courses within a quarter and achieve a quarterly GPA of 3.50 to 3.84 will be named to the Deans' Honor Roll. When a student has reached a total of 12 credits over a number of quarters with a cumulative GPA of 3.50 to 3.84, they will be named to the Deans' Honor Roll.

Students who earn 12 credits in courses within a quarter and achieve a quarterly GPA of 3.85 to 4.00 will be named to the President's Honor Roll. Pass/Fail graded classes are not included in the 12 credit requirement. When a student has reached a total of 12 credits over a number of quarters with a cumulative GPA of 3.85 to 4.00, they will be named to the President's Honor Roll.

Academic Information

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 do either of the following:

- Limit or deny future enrollment
- Allow continued enrollment but limit state funding support

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. For further information, contact the Counseling/Advising Center.

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 may 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 section); 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 the Counseling/Advising Center 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 a Reinstatement Committee 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 a 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 section); 2. Petition for Reinstatement after setting out for 2 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 Vice President for Student Services no later than 10 calendar days from the date of the dismissal. Documentation to support a statement of extenuating circumstances is required. The Vice President 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.

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 a 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.

Appeal of Academic Dismissal

Students may appeal the academic 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 Vice President for Student Services no later than 10 calendar days from the date of the dismissal. Documentation to support a statement of extenuating circumstances is required. The Vice President may request a meeting with the student prior to making a decision.

- 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).

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 (section 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 at columbiabasin.edu/FERPA. 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 submit a Disclosure of Directory Information form to the Registrar within 15 calendar days after the beginning of the quarter. If a student places this hold on their account, it will remain in effect until otherwise notified. This request will prevent any release of information to a third party without a signed release from the student. In addition, the electronic record will be annotated preventing the electronic release of information, with the words privacy block in the student records. This certification does not preclude the verification of degrees awarded for graduation purposes.

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

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 at columbiabasin.edu/_documents/policies/alcohol_drugfreeworkplace3180final.pdf.

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 or complaints regarding 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 at columbiabasin.edu/public-info/non-discrimination-disability-statement/

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 cglatt@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 policy. The policy can be found at columbiabasin.edu/absenceforfaith.

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 columbiabasin.edu/learn/transition-to-college/high-school-programs/

Additional College policies can be found online at columbiabasin.edu.

Student Resources

Academic Success Center

The Academic Success Center (ASC) supports CBC students in pursuit of their learning goals by providing a welcoming virtual and physical space to find academic support and engage in active learning. The ASC offers free in-person and online tutoring in high-demand subject areas like math, science, computer science, world languages and the humanities. Students can access drop-in tutoring for one-on-one or small group assistance both online and in person, and in the physical ASC space, students can access computers, printers, whiteboards and private study rooms, among other 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.

For information about the ASC and online tutoring, contact the Academic Success Center at 509-542-4676, email asc@columbiabasin.edu or visit the website at columbiabasin.edu/asc.

Writing Center

As a branch of the ASC, the Writing Center offers writing support in all subject areas. Consultations with writing tutors help students at all stages of the writing process, including planning, reorganizing and developing drafts, and revising for details and clarity. Students can also receive help developing skillsets in writing, reading, research and critical thinking. Appointments can be made by contacting the Academic Success Center or through the ASC's webpage: columbiabasin.edu/asc.

Assessment Center

Assessment

In addition to standardized testing of skills in English, reading and math for appropriate college course placement, the Assessment Center evaluates multiple measures used for course placement. 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 abe@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 columbiabasin.edu/assessment.

Athletics

CBC is a member of the Northwest Athletic Conference. CBC's teams compete in baseball, softball, basketball, golf, soccer and volleyball. 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 our website at cbcbookstore.com. 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) is a unique educational program designed for students from migrant and seasonal farmworker backgrounds. The program is funded by the U.S. Department of Education Grant No. S149A220025 at more than $2.3 million over five years.

CAMP'S mission is to provide students with the foundation they need to successfully reach their educational and career goals. CAMP provides students with proactive academic, career, financial and support services throughout their first year of college. For more information, please contact the CAMP Office at 509-542-4602 or visit columbiabasin.edu/camp.

Counseling/Advising Center

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

Educational Planning

Counselors and 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, Counselors and 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.

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. Career, transfer, job search and personal/professional development workshops are scheduled throughout the year. They provide information and referrals to a wide range of resources both on- and off-campus.

Human Development Courses

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

Student 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 the Counseling/Advising Center at 509-542-5505.

Disability Support Services

Disability Support Services is dedicated to assisting students in reaching their personal and educational goals by offering assistive technology and support to qualified students who need assistance to overcome obstacles. In the spirit of Section 508 and the Americans with Disabilities Act (ADA), our services and technology can support a range of disabilities, including but not limited to mental health, learning disabilities, deaf/hard of hearing, blind/low vision and mobility impairments. Reasonable accommodations will be determined on a case by case basis. Prospective and current students needing assessment or needing accommodations should contact Disability Support Services at 509-542-4412 or by email at dss@columbiabasin.edu.

Educational Technology

The Educational Technology Department supports students, faculty and staff in using and implementing educational technologies. This includes support of online and blended (hybrid) classes, as well as use of technology in face-to-face classes. The main technologies supported are Canvas (learning management system), Panopto (lecture capture, video recording) and Zoom (webinar, virtual office).

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 509-542-4436 or foundation@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). Please visit columbiabasin.edu/hawkcentral or email your questions to hawkcentral@columbiabasin.edu.

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 website: columbiabasin.edu/studentemployment. The website also provides tools and resources for students wanting to work on-campus or off-campus through the State Work Study program.

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 columbiabasin.edu/studentemployment.

Criteria for Work Study

(Refer to Financial Aid Programs 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 houses a Library classroom, a 30 seat computer lab, and an IS Help Desk. The CBC Health Sciences Library is located on the third floor of the CBC Health Science Center in Richland. Both locations are open to all students, faculty, staff and local community members.

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 desktop computer access 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, an archive of CBC history and course reserves.

Research help is available from CBC librarians in person and online. Chat assistance is even available 24/7! See our website for drop-in hours, to chat, or to make an appointment: columbiabasin.edu/library

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 transfer to a four-year institution and 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.

Student Resources

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 has approximately 26 clubs and 12 athletic and fine arts organizations focusing on sports, arts, diversity, fun, travel and more!

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 presents several plays during the school year. All students are encouraged to try out for parts in the plays or for positions on the production staff.

Planetarium

The Bechtel National Planetarium on the Pasco campus is the largest planetarium theater in Washington. The Planetarium uses one of the Northwest's most advanced projection systems 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.

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. Shows for the public are held on Friday evenings and Saturday afternoons; available show times are listed on the website.

Public show schedules, ticket sales and other information can be found on the website at columbiabasin.edu/planet.

Student Housing

Student Housing is located across the street from the Pasco campus on the corner of 20th Avenue and Argent Road, providing a walkable commute to classes. The Student Housing facility offers furnished rooms with kitchens and bathrooms for full-time students. Student Housing is committed to providing a safe, comfortable and academic environment where students can live, learn and grow together. For additional information, please visit housing.columbiabasin.edu or contact the Student Housing Office at housing@columbiabasin.edu or 509-542-4550.

Student Support Services

Student Support Services/TRIO (SSS) at CBC is a federally funded grant that assists first-generation, low-income and disabled students graduate and transfer to a university. Students may be eligible for SSS if they are a first generation college student (neither parent has earned a bachelor's degree), are financially limited or have a documented disability. Students in SSS benefit from individual help with academic advising, transfer planning, major and career planning, and intensive tutoring in math and science.

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. P047A170830.

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, workshops tailored to veteran student success and access to a VA VITAL coordinator. The 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 columbiabasin.edu/veterans or speak to a member of the V.E.T.S. 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) 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 veteran enrollment per cohort. In the event that a veteran 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) or Veteran Readiness and Employment (Ch. 31) benefits, while payment to the institution is pending from the VA. This school will not:

- Prevent the students 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 WA state food/cash assistance, the WEC may have a program that can help you. WEC is loated in T-583.

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:

- Maintaining eligibility for food stamps while attending school
- Washington State Department of Social and Health Services' child care 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 BFET Office at 509-542-4719.

Early Achievers Grant

The Early Achievers Grant serves students i the Early Childhood Education program that are urrently working in the fiedl and who need the CBC credential to stsay licensed with the state. Ealrly Achievers Grant services include:

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

For more information, please contact Early Achievers Grant 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
- Registration assistance
- Tution assistance for up to one year of classes
- Book assistance

For more information, pleae contact Opportunity Grant at 509-542-4446 or 509-542-4587.

Worker Retraining

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

- Are 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 to them and they are either unemployed or underemployed
- Are honorably 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. Their job is listed as not in demand; 2. They need training to remain working for your current employer; 3. And/or they 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 CBC Worker Retraining at 509-542-4446 or visit columbiabasin.edu/workerretraining.

WorkFirst

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

- Career and educational planning assistance
- Registration assistance
- First quarter financial assistance for tuition, fees and books for basic skills, vocational, technical and professional training programs

For more information, please contact WorkFirst at 509-542-4719 or 509-542-4531.

Student Assistance

The following services are available to low-income students attending our college:

- Childcare Reimbursement
- Travel Reimbursement
- Short-term emergency book/tuition/housing loans

To find out more information or apply for assistance, email moneyforyou@columbiabasin.edu or visit columbiabasin.edu/workfirst.

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 escorts, 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 located on the CBC website at columbiabasin.edu/asafercbc. 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 at the following website: columbiabasin.edu/safety.

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

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 any Level II or III sex offender 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 and Activities 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 and Activities. Notification to the College community will be made pursuant to CBC's Sexual Offender Notification Procedure, which can be located at columbiabasin.edu/safety. When a Level III sex offender is enrolled, their picture will be posted around campus, and a notification will be sent out 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 cglatt@columbiabasin.edu or by calling 509-542-5548. More information is available at columbiabasin.edu/titleix.

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 (columbiabasin.edu/ens) to receive emergency notifications via email and text messaging
- CBC website homepage: columbiabasin.edu
- CBC Facebook: facebook.com/columbiabasincollege
- CBC main line: 509-547-0511; if the College is closed, the message will state that CBC is closed

Safety & Security Information

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.

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 appropriate advisor (Counselor, Completion Coach, Retention Specialist or program advisor) 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 are available online at columbiabasin.edu/gradapps and must be completed and signed by the student and appropriate advisor. 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 for more information regarding catalog degree requirements). No one course can fulfill two distribution requirements.
- 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/Dual Credit section for more information.
- 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 of Science degree or Associate in Applied Science degree. Students must indicate this request on their graduation application. (These individuals are not required to complete the 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 in Applied Science degree. Students must indicate this request on their graduation application. (These individuals are not required to complete the State Board of Education's graduation requirements.)

Disclaimer

During the period this catalog is in circulation, there may be curriculum revisions and program changes. Students are responsible for consulting the appropriate academic unit or completion coach for current information, as the information in this catalog does not constitute an agreement between the College and the student.

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 in Nursing (BSN). The BAS degrees are offered in Applied Management (with optional concentrations in Agriculture or Healthcare Administration), Cyber Security, Dental Hygiene, Health Physics, Information Technology, Project Management (with an optional concentration in Construction) and Teacher Education (with early childhood education endorsement).

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 BSN 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 BSN 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 in Applied Science (AAS)

Minimum 90 credits

The Associate in 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 program advisor or 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 & 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 & Sciences in Computer Science (AA/DTA/MRP)

90 credits

The Associate 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 & Sciences in Math Education (AA/DTA/MRP)

90 to 92 credits

The Associate 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 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. 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 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/resource sciences, chemistry, geology or earth science. The second track is designed for students majoring in engineering, computer science, 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.

Degree and Certificate Overview

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 columbiabasin.edu/gradapps 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 participate in the graduation ceremony or qualify for honors designation. Not all certificates are eligible for financial aid. Please check columbiabasin.edu/gradapps 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 participate in the graduation ceremony or 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: Bill McKay

Instructional Programs

- Communication Studies
- English
- Music
- Reading
- Spanish Medical Interpreting
- Theatre
- Visual Arts
- World Languages:
  - French
  - Japanese
  - Spanish

School of Business

B Building, Room B119
business@columbiabasin.edu
Dean: Kyle Winslow

Instructional Programs

- Accounting
- Applied Management
- Business
- Economics
- Healthcare Administration
- Project Management

School of Career & Technical Education

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

Instructional Programs

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

School of Computer Science

B Building, Room B119
Email: computerscience@columbiabasin.edu
Dean: Kyle Winslow

Instructional Programs

- Computer Science
- Computer Science Information Technology
- Cyber Security

School of Education

X Building
Phone: 509-542-5600
education@columbiabasin.edu
Director: Jacob Bang

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

- Dental Hygiene
- Emergency Medical Technician
- Fire Science
- Health Sciences
- Medical Assistant
- Medical Imaging Technology
- Nuclear Medicine Technology
- Nursing
- Nursing Assistant
- Paramedic
- Perioperative Nursing
- Phlebotomy
- Radiologic Technology
- Spanish Medical Interpreting
- Sterile Processing Technician
- 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
counseling@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
Deans: Doug Hughes and Bill McKay

Instructional Programs

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

Transitional Studies

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

Instructional Areas

Instructional Programs

- Adult Basic Education/GED®
- English Language Acquisition (ELA)
- High School Equivalency Program (HEP)
- High School Academy (HSA)
- High School Completion
- High School+ (HS+)
- Integrated Basic Education Skills Training (I-BEST)

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 of determining a student's knowledge or skill level, such as an exam, often taken to find his or her best placement or starting level in a series of courses in English, world languages, math or science. At CBC, assessment also refers to determining skills and abilities as learning outcomes in the college's general education program.

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 2023).

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.
(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 school work. Compare to developmental-level study. At CBC, college-level courses are numbered 100 or above.

commencement
The ceremony at the end of an academic year when students receive their degrees or diplomas (compare to graduation).

common course numbering
The Common Course Numbering system identifies courses that are commonly shared among Washington community and technical colleges. Visit sbctc.edu/colleges-staff/programs-services/common-course-numbering/ccn.aspx 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.

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 indiviaul 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.

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 school. At CBC, librarians and counselors are considered faculty members along with classroom instructors.

final exam or finals
Final exams are held the last week of each quarter for credit students. The final examination shall make up no more than 33% of the course grade.

finals week
The last week in the academic quarter in which final exams are given. Normal class schedules often vary during finals week. Exam schedules are published in the academic calendar every quarter.

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
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 (compare to 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.

College Survival Guide

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 letter grade. At CBC, the student must finish the incomplete work within one academic 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 level to enter a series of courses, based on the student's skills (since she learned so much Spanish in high school, she can place into Spanish 201 in her first year at college); often used in the context of basic skills subjects such as 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.

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 a discipline in the AA/DTA distribution.

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 at wsac.wa.gov/wasfa

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 counselor, completion coach or faculty advisor for more information.

Cross-Listed Courses

Course -- Cross-Listed Course(s)

AG 201 -- BIOL 201
AG 252 -- BIOL 252
AG 310 -- AMGT 310 -- HCAD 310
AG 340 -- AMGT 340 -- HCAD 315 -- NRS 315
AG 430 -- AMGT 430
AG 470 -- AMGT 470
AG 480 -- AMGT 480 -- HCAD 480
AMGT 310 -- AG 310 -- HCAD 310
AMGT 330 -- HCAD 330
AMGT 340 -- AG 340 -- HCAD 315 -- NRS 315
AMGT 420 -- HCAD 420
AMGT 430 -- AG 430
AMGT 470 -- AG 470
AMGT 480 -- AG 480 -- HCAD 480
BIOL 201-- AG 201
BIOL 252 -- AG 252
HCAD 310 -- AG 310 -- AMGT 310
HCAD 315 -- AG 340 -- AMGT 340 -- NRS 315
HCAD 330 -- AMGT 330
HCAD 420 -- AMGT 420
HCAD 480 -- AG 480 -- AMGT 480
HIST 115 -- SOC 115
HSCI 148 -- SPAN 281
HSCI 149 -- SPAN 282
HSCI 150 -- SPAN 283
ICS 220 -- SOC 220
MA 114 -- MRHI 114
MA 214 -- MRHI 214
MRHI 114 -- MA 114
MRHI 214 -- MA 214
NRS 315 -- AG 340 -- AMGT 340 -- HCAD 315
SOC 115 -- HIST 115
SOC 220 -- ICS 220
SPAN 281 -- HSCI 148
SPAN 282 -- HSCI 149
SPAN 283 -- HSCI 150

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
CMST 221 –– Communication Skills for Conflict Resolution
CMST 246 –– Oral Interpretation
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
ENGL 265 –– English Literature
ENGL 266 –– English Literature
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
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 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

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&131 –– Intro to Organic/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
CS 162 –– C++2
CS 202 –– Programming Fundamentals 2
CS 236 –– Java I/O w/ Android Devices & Integration
ENVS&101 –– Intro to Environmental Science w/ Lab
ENVS 174 –– Intro to Meteorology and the Atmosphere
ENVS 310 –– Environmental Issues
GEO 101 –– Physical Geography

Distribution Codes

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
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&144 –– Precalculus I & 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]

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 216 –– Health and Fitness for Life Lab
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 127 –– Fitness Center
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 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 187 –– Baseball I
PE 188 –– Baseball II
PE 189 –– Baseball III
PE 190 –– Cardio Kickboxing I
PE 201 –– Exercise and Weights

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
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 233 –– War in History
ICS 220 –– Globalization
ICS 255 –– Race and Ethnic Relations
POLS 104 –– State and Local Government
POLS&201 –– Intro Political Theory
POLS&202 –– American Government
POLS&203 –– International Relations
POLS&204 –– Comparative Government
POLS 205 –– American Political Thought
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

Associate in Arts & Sciences Degree (AA/DTA)

Direct Transfer Agreement

2022-2023 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&144	Precalculus I & 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

Degree & Certificate Requirements

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 [H]	5		
ENGL 265	English Literature [H]	5		
ENGL 266	English Literature [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:				
CMST 221	Communication Skills for Conflict Resolution [H]	5		
CMST 246	Oral Interpretation [H]	5		
HIST&126	World Civilizations I [H]	5		
HIST&127	World Civilizations II [H]	5		
HIST&128	World Civilizations III [H]	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 222	Columbia Basin Cultures [H]	5		
PHIL&101	Intro to Philosophy [H]	5		
PHIL 106	Introduction to Logic [H]	5		

Degree & Certificate Requirements

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		
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&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 233	War in History [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	American 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		
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	Abnormal Psychology [S/B]	5		
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		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
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		
	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		
CS 162	C++2 [M/S]	5		
CS 202	Programming Fundamentals 2 [M/S]	5		
CS 236	Advanced Object Oriented Programming [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&144	Precalculus I & 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		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
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		
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]	6		
BIOL&242	Human A&P 2 w/ Lab [M/S]	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]	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&131	Intro to Organic/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		

Degree & Certificate Requirements

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		
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		
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:				
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 215/216	Health and Fitness for Life [PE] + Lab	4		
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		
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]	1–2		
PE 122	Weight Training III [PE]	1–2		
PE 127	Fitness Center [PE]	1–6		
PE 132				
PE 133				
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]	1–2		
PE 149				
PE 150				
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		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PE 165	Volleyball III [PE]	1		
PE 180/182	Adaptive PE [PE] + Lab	3		
PE 181				
PE 187	Baseball I [PE]	1–2		
PE 188	Baseball II [PE]	1		
PE 189	Baseball III [PE]	1		
PE 190	Cardio Kickboxing I [PE]	1		
PE 201				
	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.
- Minimum grade per course 1.0.
- 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.
- 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 counselor, completion coach, or faculty 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 elective credits may be professional/technical courses numbered 100 or above. 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.

Disclaimer:

During the period this guide is in circulation, there may be curriculum revisions and program changes. Students are responsible for consulting the appropriate academic unit, completion coach or advisor for current and specific information. The information in this guide is subject to change and does not constitute an agreement between the College and the student.

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

TRANSFER

2022-2023 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		
CMST 221	Communication Skills for Conflict Resolution [H]	5		
CMST 246	Oral Interpretation [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 [H]	5		
ENGL 265	English Literature [H]	5		
ENGL 266	English Literature [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		
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 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		
PHIL 131	World Religions [H]	5		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHIL 150	Introduction to Ethics [H]	5		
WS 155	Women's Cultural Heritage [H]	5		
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 233	War in History [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	American 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		
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	Abnormal Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC 110	Gender, Media, & Popular Culture [S/B]	5		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
SOC 115	Intro to Middle East History & Society [S/B]	5		
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		
	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**		

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**		

Degree & Certificate Requirements

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 90 credits.
- Required minimum cumulative college-level GPA of 2.0.
- Minimum grade per course 1.0.
- 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.

Associate in Science Transfer (AS-T1) in Biology/Environmental Science/Chemistry/Geology/Earth 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.

Disclaimer:

During the period this guide is in circulation, there may be curriculum revisions and program changes. Students are responsible for consulting the appropriate academic unit, completion coach or advisor for current and specific information. The information in this guide is subject to change and does not constitute an agreement between the College and the student.

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

TRANSFER

2022-2023 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		
CMST 221	Communication Skills for Conflict Resolution [H]	5		
CMST 246	Oral Interpretation [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 [H]	5		
ENGL 265	English Literature [H]	5		
ENGL 266	English Literature [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		
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 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		
PHIL 131	World Religions [H]	5		

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHIL 150	Introduction to Ethics [H]	5		
WS 155	Women's Cultural Heritage [H]	5		
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 233	War in History [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	American 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		
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	Abnormal Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
SOC 110	Gender, Media, & Popular Culture [S/B]	5		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
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		
	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**		

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.
- Minimum grade per course 1.0.
- 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.

Associate in Science Transfer (AS-T2) in Engineering/Computer Science/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.

Disclaimer:

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Degree & Certificate Requirements

Accounting Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

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		
Select 20 credits from the following:				
BUS 105	Business & Payroll Tax Accounting	5		
BUS 107	Federal Income Taxes	5		
BUS 111	Computerized Accounting	5		
BUS 250	Management Information Systems	5		
BUS 264	Fraud & Accounting Information Systems	5		
	Subtotal	**35**		

Major Support

Select a minimum of 32 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS& 101	Introduction to Business [S/B]	5		
BUS 120	Personal Finance	5		
or				
BUS 210	Managing Personal Finance	5		
PROJ 100	Introduction to Project Management	5		
BUS 165	Investments	5		
BUS& 201	Business Law	5		
BUS 255	Legal Institutions & Processes in Am. Business	5		
BUS 263	Principles of Finance	5		
BUS 295	Supervised Employment	1–5		
BUS	1 BUS course listed in Major Courses section above	5		
CS 101	Intro to Computers & Information Technology	5		
CS 106	Database Systems	5		
CS 108	Intermediate Spreadsheets	2		
ECON&202	Macro Economics [S/B]	5		
ECON&201	Micro Economics [S/B]	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		
	Subtotal	**32-35**		

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 106	Business Mathematics	5		
Any MATH course higher than 106		5		
Social and 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 Studies - select 3-5 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		
	Subtotal	**23-25**		
	Total Credits Required	**90-95**		

Accounting One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

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:				
BUS 105	Business & Payroll Tax Accounting	5		
BUS 111	Computerized Accounting	5		
BUS 250	Management Information Systems	5		
	Subtotal	**20**		

Major Support

Select a minimum of 12 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS& 101	Introduction to Business [S/B]	5		
BUS 107	Federal Income Taxes	5		
BUS 120	Personal Finance	5		
or				
BUS 210	Managing Personal Finance	5		
PROJ 100	Introduction to Project Management	5		
ACCT&203	Principles of Accounting III	5		
BUS 165	Investments	5		
BUS& 201	Business Law	5		
BUS 255	Legal Institutions & Processes in Am. Business	5		
BUS 263	Principles of Finance	5		
BUS 264	Fraud & Accounting Information Systems	5		
BUS 295	Supervised Employment	1–5		
BUS	1 BUS course listed in Major Courses section above	5		
CS 101	Intro to Computers & Information Technology	5		
CS 106	Database Systems	5		
CS 108	Intermediate Spreadsheets	2		
ECON&202	Macro Economics [S/B]	5		
ECON&201	Micro Economics [S/B]	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		
	Subtotal	**12-15**		

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 106	Business Mathematics	5		
Any MATH course higher than 106		5		
Social and 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 Studies - select 3-5 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		
	Subtotal	**18-20**		
	Total Credits Required	**50-55**		

Administrative Assistant Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AOT 117	Office Orientation	4		
AOT 142	General Office Procedures	5		
CA 140	Intro to Computer & Info Tech - MS Word	1		
CA 150	Intro to Computer & Info Tech - MS Excel	1		
CA 170	Microsoft Outlook	1		
	Subtotal	**12**		

Major Support

Select 0-6 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AOT 156	Supervised Employment	2		
CA 100	Introduction to Microcomputers	4		
CA 101	Keyboarding I	2		
CA 102	Keyboarding II	2		
CA 130	Windows Operating System	1		
CA 160	Intro to Computer & Info Tech - MS PowerPoint	1		
CA 180	Microsoft Access	1		
	Subtotal	**0-6**		
	Total Credits Required	**12-18**		

Advanced EMT Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EMT 103	Advanced Emergency Medical Technician (AEMT) I	9		
EMT 104	Advanced Emergency Medical Technician (AEMT) II	9		
	Total Credits Required	**18**		

Degree & Certificate Requirements

Agribusiness Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

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		
BUS& 101	Introduction to Business [S/B]	5		
BUS& 201	Business Law	5		
ECON&201	Micro Economics [S/B]	5		
ECON&202	Macro Economics [S/B]	5		
CS 101	Intro to Computers & Information Technology	5		
	Subtotal	**35**		

Major Support

Select 35 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AFS 101	Introduction to Agricultural Systems	5		
AG 102	Introduction to Animal Science w/ Lab	5		
BIOL 140	Fundamentals of Botany w/ Lab [M/S]	5		
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.				
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 289	Agriculture Business Concepts	5		
CHEM&140	General Chemistry Prep w/ Lab [M/S]	5		
HORT 202	Cultivated Plants w/ Lab	5		
HORT 203	Crop Growth & Development w/ Lab	5		
	Subtotal	**35**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH&146	Introduction to Stats [M/S] [Q/SR]	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		
Psychology or Sociology - select 5 credits from the following:				
PSYC&100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Communication Studies - select 3-5 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		
	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.

Degree & Certificate Requirements

Agriculture Production Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AG 101	Crop Production I Field Crops w/ Lab	4		
AG 107	Agriculture Safety	3		
AG 117	Agriculture Mechanics and Machinery w/ Lab	4		
AG 140	Weed Science w/ Lab	4		
AG 181	Irrigation Principles and Management w/ Lab	4		
AG 205	Crop Pests and Diseases w/ Lab	4		
AG 221	Introduction to Precision Agriculture	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	4		
AG 250	GPS and GIS Applications w/ Lab	4		
CS 101	Intro to Computers & Information Technology	5		
AG 232	Crop Production II Fruit & Veg Production w/ Lab	4		
HORT 202	Cultivated Plants w/ Lab	5		
HORT 203	Crop Growth & Development w/ Lab	5		
HORT 242	Hydroponic Technology w/ Lab	4		
HORT 235	Greenhouse Production and Management w/ Lab	3		
AG 289	Agriculture Business Concepts	5		
AFS 101	Introduction to Agricultural Systems	5		
AG 297	Agriculture Internship	3		
	Subtotal	**78**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CHEM&110	Chemical Concepts 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	**98**		

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)

2022-2023 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&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&144	Precalculus I & 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		
or				
ICS 320	Culture and Health [H]	5		
PHIL 305	Professional Ethics [H]	5		
or				
PHIL 315	Professional Ethics in Healthcare [H]	5		
Social & Behavioral Sciences* - select 10 credits from the following:				
Social Science course		5		
ECON 305	Managerial Economics [S/B]	5		
or				
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 Electives from the above distribution lists* - select 10 credits: Program advisor approved Communication, Quantitative/Symbolic Reasoning, Social & Behavioral Sciences, Humanities or Mathematical & Natural Science				
		5		
		5		
		5		
	Subtotal	**60**		

Degree & Certificate Requirements

Major Support**

Course credits used for major support should be (1) 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&201	Principles of Accounting I	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	Management & Organization Theory	5		
AMGT 310	Operations Management	5		
AMGT 310 is cross-listed with AG 310 and HCAD 310. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 320	Leadership & Organization Behavior	5		
AMGT 330	Legal Issues for Business & Managers	5		
AMGT 330 is cross-listed with HCAD 330. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 340	Information Technology and Applications	5		
AMGT 340 is cross-listed with AG 340, HCAD 315, and NRS 315. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 360	Business Planning and Strategy	5		
AMGT 400	Financial and Managerial Accounting	5		
AMGT 417	Contemporary Issues in Business & Management	5		
AMGT 430	Fundamentals of Financial Management	5		
AMGT 430 is cross-listed with AG 430. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 480	Applied Management Capstone	5		
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 10 credits from the following:				
AMGT 317	BAS Special Topics	1–5		
AMGT 350	Marketing for Managers	5		
AMGT 389	BAS Independent Study	1–5		
AMGT 420	Human Resource Management	5		
AMGT 420 is cross-listed with HCAD 420. A student may not use equivalent cross-listed courses for the same graduation requirement.				
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	Management & Organization Theory	5		
AMGT 320	Leadership & Organization Behavior	5		
AMGT 350	Marketing for Managers	5		
AMGT 400	Financial and Managerial Accounting	5		
AMGT 417	Contemporary Issues in Business & Management	5		
AMGT 430	Fundamentals of Financial Management	5		
AMGT 430 is cross-listed with AG 430. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 310	Healthcare Operations Management	5		
HCAD 310 is cross-listed with AG 310 and AMGT 310. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 315	Healthcare Informatics/Information Technology	5		
HCAD 315 is cross-listed with AG 340, AMGT 340, and NRS 315. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 330	Legal Issues in Healthcare	5		
HCAD 330 is cross-listed with AMGT 330. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 420	Human Resources Management & Policy	5		
HCAD 420 is cross-listed with AMGT 420. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HCAD 480	Healthcare Administration Capstone	5		
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.				
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	Management & Organization Theory	5		
AG 310	Ag Operations and Supply Chain Management	5		
AG 310 is cross-listed with AMGT 310 and HCAD 310. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 320	Leadership & Organization Behavior	5		
AMGT 330	Legal Issues for Business & Managers	5		
AMGT 330 is cross-listed with HCAD 330. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AG 340	Ag Information Technology and Applications	5		
AG 340 is cross-listed with AMGT 340, HCAD 315, and NRS 315. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 360	Business Planning and Strategy	5		
AMGT 400	Financial and Managerial Accounting	5		
AMGT 417	Contemporary Issues in Business & Management	5		
AG 430	Fundamentals of Agriculture Financial Management	5		
AG 430 is cross-listed with AMGT 430. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AG 480	Agriculture Management Capstone	5		
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 10 credits from the following:				
AMGT 317	BAS Special Topics	1–5		
AMGT 350	Marketing for Managers	5		
AMGT 389	BAS Independent Study	1–5		
AMGT 420	Human Resource Management	5		
AMGT 420 is cross-listed with HCAD 420. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AG 470	Agriculture Management Internship	1–10		
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 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) AG, AMGT, and HCAD courses.
- Required minimum 180 credits.
- Required minimum cumulative GPA 2.0.
- Minimum grade per distribution course 1.0.

Degree & Certificate Requirements

Automotive Technology Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 107	Parts, Systems, and Components	4		
AMT 109	Tools and Hardware	3		
AMT 113	Maintenance Publications and Records	2		
AMT 114	Preventive Maintenance	5		
INT 105	Precision Measurement	1		
AMT 120	Basic Electrical Systems	4		
AMT 210	Automotive Electronics	4		
INT 251	Troubleshooting for Technicians	2		
AMT 220	Advanced Electrical & Electronics & Lab	7		
AMT 119	Suspension and Steering Systems Theory	2		
AMT 121	Suspension and Steering Systems Servicing	5		
AMT 123	Brake Systems I	5		
AMT 223	Brakes Systems II & Lab	5		
AMT 129	Engine Theory	3		
AMT 130	Engine Servicing	4		
AMT 133	Engine Repair	4		
AMT 134	Engine Rebuild	3		
AMT 233	Manual Transmissions & Lab	7		
AMT 240	Drivability Diagnostics & Lab	7		
AMT 243	Heating, Ventilation & Air Conditioning Systems	7		
	Subtotal	**84**		

Major Support Hybrid

Select 0-18 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 250	Automotive Technology Systems Review	3		
AMT 251	Hybrid Operations and Safety	3		
AMT 252	High Voltage Basic Operations	3		
AMT 253	Basic Maintenance and Servicing of Hybrids	3		
AMT 254	High Voltage Diagnostics	3		
AMT 255	Component Replacement	3		
	Subtotal	**0-18**		

Major Support Body and Transmission

Select 2-12 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 104	Diesel Engine Theory	2		
AMT 230	Automatic Transmission	5		
AMT 115	Basic Damage Repair	3		
AMT 116	Corrosion Protection	3		
AMT 117	Introduction to Paint Application	3		
AMT 118	Glass and Plastic Adhesive Repair	3		
	Subtotal	**2-12**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH 100	Algebraic Tools for Vocational Application	5		
English - select 5 credits from the following:				
ENGL&101	English Composition I [C]	5		
ENGL 103	Writing in the Workplace	5		
Note: ENGL 103 preferred				
Human Relations - select 3-5 credits from the following:				
PSYC&100	General Psychology [S/B]	5		
PSYC 103	Applied Psychology	3		
BUS 271	Human Relations Business	5		
Communication Studies - select 3 credits from the following:				
CMST 103	Workplace Communication	3		
CMST 110	Communication Behavior [C]	3		
Note: CMST 103 preferred				

Subtotal	**16-18**
Total Credits Required	**102-132**

Note:

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

Automotive Technology Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 107	Parts, Systems, and Components	4		
AMT 109	Tools and Hardware	3		
AMT 113	Maintenance Publications and Records	2		
AMT 114	Preventive Maintenance	5		
AMT 120	Basic Electrical Systems	4		
AMT 123	Brake Systems I	5		
AMT 129	Engine Theory	3		
AMT 130	Engine Servicing	4		
AMT 133	Engine Repair	4		
AMT 134	Engine Rebuild	3		
AMT 210	Automotive Electronics	4		
INT 105	Precision Measurement	1		
	Total Credits Required	**42**		

Note:

Students must be admitted into the Automotive Technology program to work on this certificate. Students must complete the Basic Automotive Technician Short-Term Certificate or have earned advance placement credits as part of the admission requirements.

Basic Automotive Technician Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 107	Parts, Systems, and Components	4		
AMT 109	Tools and Hardware	3		
AMT 113	Maintenance Publications and Records	2		
AMT 114	Preventive Maintenance	5		
INT 105	Precision Measurement	1		
	Total Credits Required	**15**		

Note:

Students must be admitted into the Automotive Technology program to work on this certificate. Students must complete the Basic Automotive Technician Short-Term Certificate or have earned advance placement credits as part of the admission requirements.

Basic Industrial Maintenance Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 110	Basic Blueprints and Drawings	3		
ELT 101	Basic Electricity	5		
MNT 110	Fundamentals of Maintenance	7		
WT 100	Basic Welding	3		
	Total Credits Required	**18**		

Basic Industrial Mechanical Maintenance Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 201	Basic Electronics	5		
MNT 111	Intro to Machine Operations	7		
MNT 210	Hydraulic and Pneumatic Systems	7		
	Total Credits Required	**19**		

Basic Machining Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 105	Blueprint Reading	3		
INT 105	Precision Measurement	1		
MT 111	Basic Machine Technology I	5		
MT 112	Basic Machine Technology I Lab	8		
	Total Credits Required	**17**		

Students must earn a minimum 2.0 grade in all MT, INT, and BPR courses.
Required minimum cumulative GPA 2.0.

Bone Densitometry Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
IMAGE100	Bone Densitometry	4		
IMAGE110	Bone Densitometry Clinical	4		
	Total Credits Required	**8**		

Program prerequisite:
Current enrollment in an approved Radiologic Technology program or ARRT certified radiologic technologist.

Degree & Certificate Requirements

Business Administration Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

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		
BUS& 101	Introduction to Business [S/B]	5		
BUS& 201	Business Law	5		
ECON&201	Micro Economics [S/B]	5		
ECON&202	Macro Economics [S/B]	5		
Computer Science/Computer Applications - select 4-5 credits:				
CA/CS 100+	Computer course(s)	4-5		
	Subtotal	**34-35**		

Major Support

Select 15 credits in your area of interest

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
MATH 106+	MATH 106 or above	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		
Natural Science with lab - select 5 credits:				
		5		
Social and Behavioral Sciences - select 5 credits from the following:				
PSYC&100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Communication Studies - select 3-5 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		
	Subtotal	**28-30**		

Available Concentrations: General, Finance & Accounting, Marketing or Management
Choose one concentration from below:

Degree & Certificate Requirements

General

Select 20 credits from courses within any of the three concentrations listed below

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		5		
		5		
	Subtotal	**20**		
	Total Credits Required	**97-100**		

Finance & Accounting

Select 20 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ACCT&203	Principles of Accounting III	5		
BUS 105	Business & Payroll Tax Accounting	5		
BUS 107	Federal Income Taxes	5		
BUS 111	Computerized Accounting	5		
BUS 120	Personal Finance	5		
BUS 165	Investments	5		
BUS 210	Managing Personal Finance	5		
BUS 263	Principles of Finance	5		
	Subtotal	**20**		
	Total Credits Required	**97-100**		

Marketing

Select 20 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 103	Principles of Sales	5		
BUS 265	Marketing Principles	5		
BUS 267	Marketing Special Projects	1–5		
BUS 268	Marketing Special Projects II	1–5		
BUS 280	Innovation & Design Thinking 1	5		
	Subtotal	**20**		
	Total Credits Required	**97-100**		

Management

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 250	Management Information Systems	5		
BUS 262	Management Principles	5		
BUS 263	Principles of Finance	5		
BUS 271	Human Relations Business	5		
	Subtotal	**20**		
	Total Credits Required	**97-100**		

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

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ACCT&201	Principles of Accounting I	5		
BUS& 101	Introduction to Business [S/B]	5		
BUS& 201	Business Law	5		
BUS 271	Human Relations Business	5		
Computer Science/Computer Applications - select 4-5 credits:				
CA/CS 100+	Computer course(s)	4-5		
	Subtotal	**24-25**		

Major Support

Select 23 credits; see advisor for the list of optional courses and to make your selection

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		5		
		5		
		3		
	Subtotal	**23**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL&101	English Composition I [C]	5		
MATH 106+	MATH 106 or above	5		
Psychology or Sociology - select 5 credits from the following:				
PSYC&100	General Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
Communication Studies - select 3-5 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		
	Subtotal	**18-20**		
	Total Credits Required	**65-68**		

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

2022-2023 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		5		
	Subtotal	**15**		

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.
- Minimum grade per course 1.0.
- 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.

Child Development Associate (CDA) Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED 141	Child Development Associate	10		
	Total Credits Required	**10**		

Computed Tomography (CT) Technology Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
IMAGE250	Cross Sectional Anatomy	3		
IMAGE270	CT Clinical Practicum I	12		
IMAGE280	CT Instrumentation	3		
	Total Credits Required	**18**		

Computer Aided Drafting One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENT 111	Introduction to Engineering	5		
ENT 124	Intermediate Drafting	4		
ENT 128	Architecture & Engineering Blueprint Reading	2		
ENT 136	Advanced Drafting	4		
ENT 122	Materials	3		
Introduction to Drafting - select 4-5 credits from the following:				
ENT 114	Introduction to Drafting	4		
or				
ENT 118	Spatial Visualization	2		
and				
ENT 267	AutoCAD I w/ Lab	3		
	Subtotal	**22-23**		

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	4		
ENT 134	Surveying w/ Lab	6		
ENT 135	Statics	5		
ENT 219	Construction Estimating	1		
ENT 229	Construction Specifications	2		
ENT 268	AutoCAD II w/ Lab	3		
ENT 270	3-D w/ Lab	3		
ENT 271	Drawing Production w/ Lab	3		
ENT 272	Advanced 3-D w/ Lab	3		
ENT 273	Advanced AutoCAD Applications w/ Lab	3		
ENT 274	Architectural Residential Drawing w/ Lab	3		
	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	**45-46**		

Computer Basic Applications Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 101	Intro to Computers & Information Technology	5		
CS 107	Intermediate Word Processing	2		
CS 108	Intermediate Spreadsheets	2		
CS 123	PC Hardware	5		
CS 127	Windows Configuration	5		
	Total Credits Required	**19**		

Note:
This short-term certificate provides an opportunity to learn skills that are commonly needed for office-related jobs. Students who complete this certificate will have the basic skills and knowledge necessary to create professional Word documents, spreadsheets and databases. Career opportunities: secretarial-related jobs.

Degree & Certificate Requirements

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

Direct Transfer Agreement/Major Related Program

2022-2023 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 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 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		
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

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 *3

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**		

Mathematical & Natural Science *4 *5

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		
MATH&152	Calculus II [M/S] [Q/SR]	5		
	Subtotal	**15**		

Degree & Certificate Requirements

Major Requirements *6 *7

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		
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 [M/S]	5		
CS 236	Advanced Object Oriented Programming [M/S]	5		
	Subtotal	**20**		

Electives *8

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

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
	Subtotal	**10**		
	Total Credits Required	**90**		

Graduation Requirements:

- Required minimum 90 credits.
- Required minimum cumulative college-level GPA of 2.0.
- Minimum grade per course 1.0.
- 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.
- Refer to Catalog Option Policy for information about using previous degree requirements.
- For individual college requirements, see Provisions on our Transfer Opportunities webpage.

*1

- Eastern Washington University (EWU) - ENGL& 102.
- Whitworth University - CMST& 220.

*2

- EWU - Introductory Ethics (PHIL 150).
- Gonzaga University - Philosophy (PHIL& 101), Communications (CMST& 101) and Ethics (PHIL 150) for 15 credits.

*3

- Washington State University (WSU) Vancouver - Macro or Micro Economics (ECON& 201 or ECON& 202) for 5 credits.

*4

- University of Washington (UW) Tacoma - Can substitute PHYS& 222 with any lab-based science for 5 credits.

*5

- UW Tacoma - Statistics (MATH& 146) instead of Calculus II (MATH& 152).

*6

- UW Bothell - Statistics (MATH& 146) instead of Calculus III (MATH& 153) and Calculus IV (MATH& 254).
- UW Tacoma - Does not require Calculus III (MATH& 153) and Calculus IV (MATH& 254).
- WSU (all campuses) - Calculus III (MATH& 153) and Calculus IV (MATH& 254).

*7

- Central Washington University (CWU), UW Seattle, Heritage University - Two Java Courses (CS& 141 and CS 236).
- UW Bothell - Two courses in one language (C Sharp, C++, or Java).
- UW Tacoma - Intro Programming and Object Oreinted Programming (Java).
- WSU Tri-Cities - Two C++ courses.
- Other Institutions - Two courses in either C++ or Java.

*8

- EWU - Linear Algebra (MATH 243).
- Gonzaga - Engineering Physics w/ Lab (PHYS& 223) and Descrete Math (MATH 246).

- Heritage and Whitworth - Engineering Physics III w/ Lab (PHYS& 223).
- Pacific Lutheran University Tacoma, Pacific University, and Seattle University - Physical, Biological, and/or Earth Sciences w/ Lab.
- WSU (all campuses) and Western Washington University - Physical, Biological, and/or Earth Sciences w/ Lab and Engineering Physics (PHYS& 223).
- WSU Pullman and WSU Tri-Cities - PHIL& 120 recommended.
- This degree allows credits in World Languages at the 100 level or higher to meet elective requirements.

Computer and Information Technology Certificate

PROFESSIONAL TECHNICAL

2022-2023 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	3		
CS 150	Computer Security	5		
CS 228	Windows Server	5		
	Total Credits Required	**30**		

Note:

Certificate prerequisites: ENGL 098 and MATH 083. MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a minimum grade of 2.0 is a prerequisite for all programming classes. Students must receive a minimum grade of 2.5 in all Computer Science courses.

Computer and Information Technology One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 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	3		
CS 150	Computer Security	5		
CS 228	Windows Server	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&144	Precalculus I & 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 Studies - select 5-6 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:
MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a minimum grade of 2.0 is a prerequisite for all programming classes. Students must receive a minimum grade of 2.5 in all Computer Science courses.

Criminal Justice Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 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	5		
CJ& 106	Juvenile Justice	5		
CJ 234	Criminal Evidence	5		
CJ& 240	Intro to Forensic Science	5		
CJ 104	Introduction to Policing	5		
CJ& 105	Introduction to Corrections	5		
CJ 134	Organization/Administration	5		
	Subtotal	**40**		

Major Support

Select 2 courses from the following

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CJ 135	Traffic Control	5		
CJ 222	Alcohol/Drug Pharmacology/Physiology	3		
CJ 137	Constitutional Law	5		
CJ 232	Criminal Investigation	5		
	Subtotal	**8-10**		

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 Studies - select 3-5 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	**110-113**		

*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 counselor, completion coach, or faculty advisor.

Crop and Soil Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AG 101	Crop Production I Field Crops w/ Lab	4		
AG 107	Agriculture Safety	3		
AG 117	Agriculture Mechanics and Machinery w/ Lab	4		
AG 140	Weed Science w/ Lab	4		
AG 181	Irrigation Principles and Management w/ Lab	4		
AG 205	Crop Pests and Diseases w/ Lab	4		
AG 221	Introduction to Precision Agriculture	3		
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 31

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 in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 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	5		
CS 228	Windows Server	5		
Select 3-6 credits from the following:				
CS 118	Customer Service	3		
CS 217	Internship	1-3		
	Subtotal	**30-33**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 162	C++2 [M/S]	5		
or				
CS 202	Programming Fundamentals 2 [M/S]	5		
CS 206	Database Design	5		
CS 221	SQL Server Administration	5		
CS 223	UNIX/Linux	5		
CS 231	Network Infrastructure	5		
CS 232	Network Security	5		
CSIA 200	Computer Forensics Fundamentals	5		
CSIA 250	Networking Fundamentals	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&144	Precalculus I & 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 Studies - select 5-6 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:
MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a minimum grade of 2.0 is a prerequisite for all programming classes. Students must receive a minimum grade of 2.5 in all Computer Science courses.

Cyber Security Bachelor of Applied Science (BAS)

2022-2023 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 150	Computer Security	5		
CS 162	C++2 [M/S]	5		
or				
CS 202	Programming Fundamentals 2 [M/S]	5		
CS 206	Database Design	5		
CS 221	SQL Server Administration	5		
CS 223	UNIX/Linux	5		
CS 228	Windows Server	5		
CS 231	Network Infrastructure	5		
CS 232	Network Security	5		
CSIA 200	Computer Forensics Fundamentals	5		
CSIA 250	Networking Fundamentals	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 3-6 credits from the following:				
CS 118	Customer Service	3		
CS 217	Internship	1–3		
	Subtotal	**115 - 118**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management	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&144	Precalculus I & 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:

- Students must earn a minimum 2.0 grade in all CSIA and CSIT courses.
- Students must earn a minimum 2.5 grade in all CS courses.
- Required minimum cumulative GPA 2.0.
- Minimum 2.0 grade in MATH 050, 070, 072, 094, 095 or 098 is a prerequisite for all programming classes.
- 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.

Database Administrator Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 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	3		
CS 150	Computer Security	5		
CS 228	Windows Server	5		
	Subtotal	**30**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 206	Database Design	5		
CS 221	SQL Server Administration	5		
CS 223	UNIX/Linux	5		
CS 225	SQL Server Programming	5		
CS 232	Network Security	5		
Select 15 credits from the following:				
CS 123	PC Hardware	5		
or				
CS 127	Windows Configuration	5		
CS 140	SharePoint	5		
CS 162	C++2 [M/S]	5		
or				
CS 202	Programming Fundamentals 2 [M/S]	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&144	Precalculus I & 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 Studies - select 5-6 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:
MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a minimum grade of 2.0 is a prerequisite for all programming classes. Students must receive a minimum grade of 2.5 in all Computer Science courses.

Degree & Certificate Requirements

Dental Hygiene (Completion Degree) Bachelor of Applied Science (BAS)

2022-2023 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	2		
DHYG 416	Educational Theory and Methodology	2		
NRS 315	Healthcare Informatics/Information Technology	5		
NRS 315 is cross-listed with AG 340, AMGT 340, and HCAD 315. 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
***Select 5-6 credits from the following:**				
CHEM&121	Intro to 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		
****Select 5 credits from the following:**				
CHEM&122	Intro to Organic Chemistry w/ Lab [M/S]	5		
CHEM&131	Intro to Organic/Biochemistry w/ Lab [M/S]	5		
	Subtotal	**10-11**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL 315	Writing for Health Professionals [C]	5		
PSYC 201	Social Psychology [S/B]	5		
ICS 310	American Diversity [H]	5		
PHIL 315	Professional Ethics in Healthcare [H]	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		
	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:

*Students who started the AAS program after the 2007-08 academic year previously completed CHEM& 121 as a prerequisite and do not need to select 5 credits from this section of Major Support course options.

**Students who started the AAS program in the 2017-18 academic year previously completed both CHEM&121 and CHEM&122 as prerequisites and do not need to select 10 credits from the Major Support course options.

***Students who completed the AAS program with 3-5 credits of Communication Studies need 5 additional credits for a total of 8-10 Communication Studies credits.

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.

Dental Hygiene Bachelor of Applied Science (BAS)

2022-2023 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 405	Advanced Clinical Topics	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		

Degree & Certificate Requirements

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
DHYG 412	Clinical Dental Hygiene Techniques VI Lab	7		
DHYG 413	Clinical Dental Hygiene Techniques VII	1		
DHYG 414	Clinical Dental Hygiene Techniques VII Lab	9		
DHYG 415	Community Oral Health Practicum	2		
DHYG 416	Educational Theory and Methodology	2		
NRS 315	Healthcare Informatics/Information Technology	5		
NRS 315 is cross-listed with AG 340, AMGT 340, and HCAD 315. 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		
Select 5-6 credits from the following:				
CHEM&121	Intro to 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		
Select 5 credits from the following:				
CHEM&122	Intro to Organic Chemistry w/ Lab [M/S]	5		
CHEM&131	Intro to Organic/Biochemistry w/ Lab [M/S]	5		
	Subtotal	**30-34**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL&101	English Composition I [C]	5		
ENGL 315	Writing for Health Professionals [C]	5		
MATH&146	Introduction to Stats [M/S] [Q/SR]	5		
PHIL 315	Professional Ethics in Healthcare [H]	5		
SOC& 101	Intro to Sociology [S/B]	5		
ICS 310	American Diversity [H]	5		
PSYC&100	General Psychology [S/B]	5		
Psychology - Select 5 credits from the following:				
PSYC 201	Social Psychology [S/B]	5		
PSYC&200	Lifespan Psychology [S/B]	5		
Communication Studies - 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		
	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 counselor, completion coach, or faculty advisor.

EMT-Basic Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EMT 101	Emergency Medical Technician-Basic	12		
	Total Credits Required	**12**		

Early Childhood Education Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED 103	Art	3		
ECED&105	Intro to Early Childhood Education	5		
ECED&107	Health/Safety/Nutrition	5		
EDUC&115	Child Development	5		
ECED&120	Practicum-Nurturing Relationships	2		
ECED 124	Children's Literature	3		
ECED 122	Math & Science	3-5		
EDUC&130	Guiding Behavior	3		
ECED&132	Infants & Toddlers--Nurturing Care	3		
EDUC&150	Child/Family/Community	3		
ECED 151	Supervised Practicum	3		
ECED 152	Supervised Practicum Lab	1		
ECED&160	Curriculum Development	5		
ECED&170	Environments for Young Children	3		
ECED&180	Language & Literacy Development	3		
ECED&190	Observation/Assessment	3		
EDUC&203	Exceptional Child	3		
	Subtotal	**56-58**		

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
ECED&100	Child Care Basics	3		
EDUC 101	Introduction to Education	4		
ECED 110	Preschool Seminar	1–3		
ECED 116	ECED Special Topics Symposium	1–3		
ECED 117	ECED Seminar	1–3		
ECED 118	Skills Training	1–3		
ECED 119	ECED Workshop	1–3		
ECED 127	Music & Movement	3		
ECED&134	Family Child Care Management	3		
EDUC&136	School Age Care	3		
ECED&138	Home Visitor/Family Engagement	3		
ECED&139	Administration of ECE	3		
ECED 141	Child Development Associate	10		
or				
ECED 143-149, 153	Child Development Associate	1-10		
ECED 201	Multicultural Education	3		
ECED 216	Advanced Special Topics	1–3		
ECED 217	Advanced Seminar	1–3		
ECED 218	Advanced Skills Training	1–3		
ECED 219	Advanced Workshop	1–3		
ECED 221	Strategies for Teaching Special Needs	3		
ECED 222	Sign Language Level 1	3		
ECED 223	Sign Language Level 2	3		
ECED 224	Sign Language Level 3	3		
ECED 280	Special Studies Lab	1–3		
ECED 281-288	Special Studies Lab	1-15		
ECED 289	Special Studies	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	5		
Communication Studies - 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.

Degree & Certificate Requirements

Engineering Technology Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENT 111	Introduction to Engineering	5		
ENT 121	Engineering Fundamentals w/ Lab	4		
ENT 122	Materials	3		
ENT 124	Intermediate Drafting	4		
ENT 128	Architecture & Engineering Blueprint Reading	2		
ENT 134	Surveying w/ Lab	6		
ENT 135	Statics	5		
ENT 136	Advanced Drafting	4		
ENT 214	Strength of Materials	5		
ENT 216	Mechanical Drafting & Design	5		
ENT 219	Construction Estimating	1		
ENT 224	Structures	5		
ENT 226	Architectural/Structural Drafting	5		
ENT 229	Construction Specifications	2		
ENT 236	Design	5		
ENT 238	Electricity	5		
Introduction to Drafting - select 4-5 credits from the following:				
ENT 114	Introduction to Drafting	4		
or				
ENT 118	Spatial Visualization	2		
and				
ENT 267	AutoCAD I w/ Lab	3		
	Subtotal	**70-71**		

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**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL&101	English Composition I [C]	5		
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		
	Subtotal	**15**		

Degree & Certificate Requirements

Students should select one class from each of the following areas to meet the program requirement

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Human Relations - select 3-5 credits from the following:				
PSYC 103	Applied Psychology	3		
PSYC&100	General Psychology [S/B]	5		
PSYC 201	Social Psychology [S/B]	5		
SOC& 101	Intro to Sociology [S/B]	5		
BUS 271	Human Relations Business	5		
Communication Studies - select 3-5 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	**6-10**		
	Total Credits Required	**106-111**		

Degree & Certificate Requirements

Entrepreneurship and Innovation Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

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		
BUS 103	Principles of Sales	5		
BUS 179	Introduction to Entrepreneurship	5		
BUS 262	Management Principles	5		
BUS 263	Principles of Finance	5		
BUS 279	Intermediate Entrepreneurship	5		
BUS 280	Innovation & Design Thinking 1	5		
BUS& 101	Introduction to Business [S/B]	5		
BUS& 201	Business Law	5		
ECON&201	Micro Economics [S/B]	5		
ECON&202	Macro Economics [S/B]	5		
	Total Credits Required	**60**		

Major Support

Select 10 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 111	Computerized Accounting	5		
BUS 265	Marketing Principles	5		
BUS 267	Marketing Special Projects	5		
	Subtotal	**10**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 271	Human Relations Business	5		
ENGL&101	English Composition I [C]	5		
MATH 106+	MATH 106 or above	5		
Communication Studies - 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**		

Entrepreneurship and Innovation Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS& 101	Introduction to Business [S/B]	5		
BUS 179	Introduction to Entrepreneurship	5		
BUS 262	Management Principles	5		
BUS 263	Principles of Finance	5		
BUS 279	Intermediate Entrepreneurship	5		
BUS 280	Innovation & Design Thinking 1	5		
	Total Credits Required	**30**		

Degree & Certificate Requirements

Fire Science Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
FS 100	Introduction to Fire Service	1		
FS 111	Fire Administration	3		
FS 121	Fire Tactics	3		
FS 131	Introduction to Fire Inspections	3		
FS 141	Chemistry of Hazardous Materials	3		
FS 151	Hazardous Materials for First Responders	3		
FS 211	Building Construction	3		
FS 222	Fire Tactics II	3		
FS 231	Fire Protection Equipment	3		
FS 241	Fire Investigation	3		
FS 251	Fire Service Hydraulics	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	American 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	5		
BUS 271	Human Relations Business	5		
	Subtotal	**15**		

Restrictive Electives

Minimum of 28 credits appropriate to the career needs of the student. Courses must be college level, 100 or higher. Consult with advisor for course selections.

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
		5		
		5		
		5		
		5		
		5		
		3		
	Subtotal	**28**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL&101	English Composition I [C]	5		
MATH 106+	MATH 106 or above	5		
PSYC 100+	PSYC 100 or above	3-5		
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		
	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.

Degree & Certificate Requirements

Forensic Science Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CJ& 110	Criminal Law	5		
CJ 137	Constitutional Law	5		
CJ 232	Criminal Investigation	5		
CJ 234	Criminal Evidence	5		
CJ& 240	Intro to Forensic Science	5		
	Subtotal	**25**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH&144	Precalculus I & II [M/S] [Q/SR]	5		
or				
MATH&141	Precalculus I [M/S] [Q/SR]	5		
and				
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		
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 254	Quantitative Analysis [M/S]	2		
CHEM 255	Instrumental Analysis [M/S]	2		
CHEM 265	Instrumental Analysis Lab [M/S]	3		
	Subtotal	**45-50**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL&101	English Composition I [C]	5		
ENGL&235	Technical Writing [C]	5		
CS& 131	Computer Science I C++ [M/S]	5		
Humanities, Social Science, Natural Science - select 15 credits from these distribution areas, no more than 10 credits from one subject area:				
		5		
		5		
		5		
Communication Studies - select 3-5 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		
	Subtotal	**33-35**		
	Total Credits Required	**103-110**		

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)

2022-2023 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	5		
NT 111	Basic Nuclear Math & Physics	5		
NT 121	Reactor Plant Operations	4		
or				
NT 122	Basic Nuclear Facilities	4		
NT 131	Nuclear Facility Components	4		
NT 141	Basic Reactor Safety, Theory, & Operations	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance	5		
NT 150	Internship Seminar	1		
NT 152	Internship	5		
or				
NT 154	Industry Project	5		
NT 160	Nuclear Chemistry	3		
NT 170	Mechanical & Fluid Power Transmission	4		
RPT 111	Radiation Fundamentals	5		
RPT 121	Radiation Monitoring	5		
RPT 131	Radiation Effects	5		
RPT 141	Radioactive Materials Handling	5		
RPT 211	Radiological Safety and Response	5		
RPT 222	Radiation Protection	5		
HPHYS300	Radiation Physics I	5		
HPHYS305	Radiation Physics II	5		
HPHYS310	Nuclear Forensics	5		
HPHYS315	Radiological and Nuclear Emergency Response	5		
HPHYS320	Environmental Radioactivity	5		
HPHYS350	Health Physics Seminar I	1		
HPHYS400	External Dosimetry	5		
HPHYS405	Internal Dosimetry	5		
HPHYS410	Radiation Biology	5		
HPHYS415	Radiation Detection and Measurement & Lab	5		
HPHYS420	Medical Health Physics	5		
HPHYS425	Nuclear and Radiological Regulatory Framework	5		
HPHYS450	Health Physics Seminar II	1		
	Subtotal	**123**		

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	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* - select 20-21 credits from the following:				
BIOL&175	Human Biology w/ Lab [M/S]	5		
CHEM&140	General Chemistry Prep w/ Lab [M/S]	5		
or				
CHEM&161	General Chemistry I w/ Lab [M/S]	6		
ENVS 310	Environmental Issues [M/S]	5		
PHYS&110	Physics for Non-Science Majors w/ Lab [M/S]	5		
or				
Any PHYS& course higher than 110		5		
	Subtotal	**70-71**		
	Total Credits Required	**193-194**		

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 193 credits.
- Required minimum cumulative GPA 2.0.
- Minimum grade 2.0 for MATH&141 and MATH&142.
- Minimum grade per distribution course 1.0.
- 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 counselor, completion coach, or faculty advisor.

Hospitality Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Select 13-19 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSP 101	Front Desk Representative	2		
HSP 102	Guestroom Attendant	2		
HSP 103	Restaurant Server	2		
HSP 104	Maintenance Employee	2		
HSP 105	Kitchen Cook	2		
HSP 106	Breakfast Attendant	2		
HSP 107	Guest Service Professional	2		
HSP 108	Hospitality Internship	1-6		
CA 100	Introduction to Microcomputers	4		
IHT 100	OSHA-10	1		
	Total Credits Required	**13-19**		

Hydroponics and Greenhouse Management Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HORT 202	Cultivated Plants w/ Lab	5		
HORT 203	Crop Growth & Development w/ Lab	5		
HORT 242	Hydroponic Technology w/ Lab	4		
HORT 235	Greenhouse Production and Management w/ Lab	3		
AG 289	Agriculture Business Concepts	5		
	Total Credits Required	**22**		

IT Support Technician Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 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	3		
CS 150	Computer Security	5		
CS 228	Windows Server	5		
	Subtotal	**30**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 123	PC Hardware	5		
CS 127	Windows Configuration	5		
CS 223	UNIX/Linux	5		
CS 231	Network Infrastructure	5		
CS 232	Network Security	5		
CS 250	HTML5-JavaScript/JQuery	5		
Select 10 additional credits from any CS courses:				
CS		5		
CS		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&144	Precalculus I & 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 Studies - select 5-6 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:
MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a minimum grade of 2.0 is a prerequisite for all programming classes. Students must receive a minimum grade of 2.5 in all Computer Science courses.

Industrial Technology Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Select 10-19 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
IHT 100	OSHA-10	1		
INT 101	Forklift Operations	1		
INT 103	Basic HVAC	3		
ELT 101	Basic Electricity	5		
ELT 201	Basic Electronics	5		
BPR 110	Basic Blueprints and Drawings	3		
WT 100	Basic Welding	3		
MNT 110	Fundamentals of Maintenance	7		
MNT 111	Intro to Machine Operations	7		
MNT 210	Hydraulic and Pneumatic Systems	7		
	Total Credits Required	**10-19**		

Information Technology Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 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	5		
CS 228	Windows Server	5		
Select 3-6 credits from the following:				
CS 118	Customer Service	3		
CS 217	Internship	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 [M/S]	5		
or				
CS 202	Programming Fundamentals 2 [M/S]	5		
CS 206	Database Design	5		
CS 221	SQL Server Administration	5		
CS 225	SQL Server Programming	5		
CS 232	Network Security	5		
CS 236	Advanced Object Oriented Programming [M/S]	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&144	Precalculus I & 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 Studies - select 5-6 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:
MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a minimum grade of 2.0 is a prerequisite for all programming classes. Students must receive a minimum grade of 2.5 in all Computer Science courses.

Information Technology Bachelor of Applied Science (BAS)

2022-2023 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& 141	Computer Science I Java [M/S]	5		
CS 150	Computer Security	5		
CS 162	C++2 [M/S]	5		
or				
CS 202	Programming Fundamentals 2 [M/S]	5		
CS 206	Database Design	5		
CS 221	SQL Server Administration	5		
CS 225	SQL Server Programming	5		
CS 228	Windows Server	5		
CS 232	Network Security	5		
CS 236	Advanced Object Oriented Programming [M/S]	5		
CS 250	HTML5-JavaScript/JQuery	5		
CSIT 301	Information Systems	5		
CSIT 306	Intro to Big Data and Analysis	5		
CSIT 311	Python for Data Processing	5		
CSIT 316	Cloud Computing HTML5 and PHP	5		
CSIT 401	Information Systems Analysis and Design	5		
CSIT 411	Agile Methodology & ePortfolio Planning	5		
CSIT 416	Data Visualization	5		
CSIT 421	IT Capstone	5		
CSIA 310	E-Commerce Security	5		
or				
any CSIA course 300-level or above		5		
Select 3-6 credits from the following:				
CS 118	Customer Service	3		
CS 217	Internship	1–3		
	Subtotal	**115-118**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management	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&144	Precalculus I & 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 CSIA and CSIT courses.
- Students must earn a minimum 2.5 grade in all CS courses.
- Required minimum 180 credits.
- Required minimum cumulative GPA 2.0.
- MATH 094 or MATH 095 or MATH 096 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with minimum grade 2.0 is a prerequisite for all programming classes.
- 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.

Introduction to CNC Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MT 211	Advanced Machine Technology I	5		
MT 212	Advanced Machine Technology I Lab	8		
	Total Credits Required	**13**		

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

Light Body Repair Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 107	Parts, Systems, and Components	4		
AMT 115	Basic Damage Repair	3		
AMT 116	Corrosion Protection	3		
AMT 117	Introduction to Paint Application	3		
AMT 118	Glass and Plastic Adhesive Repair	3		
	Subtotal	**16**		

Major Support

Select 0-2 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
INT 101	Forklift Operations	1		
IHT 100	OSHA-10	1		
	Subtotal	**0-2**		
	Total Credits Required	**16-18**		

Logistics Technician Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
INT 130	Logistics Technician	6		
	Subtotal	**6**		

Major Support

Select 0-6 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CA 100	Introduction to Microcomputers	4		
IHT 100	OSHA-10	1		
INT 101	Forklift Operations	1		
	Subtotal	**0-6**		
	Total Credits Required	**6-12**		

Magnetic Resonance Imaging (MRI) Technology Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
IMAGE250	Cross Sectional Anatomy	3		
IMAGE271	MRI Clinical Practicum	12		
IMAGE281	MRI Instrumentation and Procedures	3		
	Total Credits Required	**18**		

Mammography Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
IMAGE225	Mammography	4		
IMAGE229	Mammography Clinical	4		
	Total Credits Required	**8**		

Manual Machining Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 105	Blueprint Reading	3		
INT 105	Precision Measurement	1		
MT 111	Basic Machine Technology I	5		
MT 112	Basic Machine Technology I Lab	8		
MT 121	Basic Machine Technology II	5		
MT 122	Basic Machine Technology II Lab	8		
MT 131	Basic Machine Technology III	5		
MT 132	Basic Machine Technology III Lab	8		
	Total Credits Required	**43**		

Students must earn a minimum 2.0 grade in all MT, INT, and BRP 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

2022-2023 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 90 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.
- Minimum grade per course 1.0, except 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.

Medical Assistant Associate in Applied Science

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MA 111	Pharmacology I	5		
MA 114	Human Body Structure, Function, and Diseases I	4		
MA 114 is cross-listed with MRHI 114 A student may not use equivalent cross-listed courses for the same graduation requirement.				
MA 115	Clinical Procedures Theory I	4		
MA 116	Clinical Procedures Lab I	4		
MA 140	Admin. Medical Assistant Office Procedures I	5		
MA 141	Career Development for Medical Assistants	2		
MA 211	Pharmacology II	5		
MA 214	Human Body Structure, Function, and Diseases II	4		
MA 214 is cross-listed with MRHI 214 A student may not use equivalent cross-listed courses for the same graduation requirement.				
MA 215	Clinical Procedures Theory II	4		
MA 216	Clinical Procedures Lab II	4		
MA 240	Admin. Medical Assistant Office Procedures II	6		
MA 241	Externship Seminar	2		
MA 242	Externship	6		
	Subtotal	**55**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology	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
ENGL&101	English Composition I [C]	5		
MATH 106+	MATH 106 or above (except MATH 109)	5		
PSYC&100	General Psychology [S/B]	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		
	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.

Medical Assistant One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MA 111	Pharmacology I	5		
MA 114	Human Body Structure, Function, and Diseases I	4		
MA 114 is cross-listed with MRHI 114. A student may not use equivalent cross-listed courses for the same graduation requirement.				
MA 115	Clinical Procedures Theory I	4		
MA 116	Clinical Procedures Lab I	4		
MA 140	Admin. Medical Assistant Office Procedures I	5		
MA 141	Career Development for Medical Assistants	2		
MA 211	Pharmacology II	5		
MA 214	Human Body Structure, Function, and Diseases II	4		
MA 214 is cross-listed with MRHI 214. A student may not use equivalent cross-listed courses for the same graduation requirement.				
MA 215	Clinical Procedures Theory II	4		
MA 216	Clinical Procedures Lab II	4		
MA 240	Admin. Medical Assistant Office Procedures II	6		
MA 241	Externship Seminar	2		
MA 242	Externship	6		
	Subtotal	**55**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology	5		
	Subtotal	**5**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL&101	English Composition I [C]	5		
PSYC&100	General Psychology [S/B]	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		
	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 Secretary Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MA 140	Admin. Medical Assistant Office Procedures I	5		
MRHI 101				
MRHI 195				
HSCI 147	Medical Terminology	5		
	Total Credits Required	**17**		

Multi-Occupational Trades Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 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 95 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 34 credit hours) of related supplemental instruction (RSI) certified by JATC. The RSI must be provided by a JATC affiliated with Columbia Basin College.				
	Subtotal	**5650 hours/129 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	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
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	5		
Human Relations - select 3-5 credits from the following:				
PSYC 103	Applied Psychology	3		
PSYC&100	General Psychology [S/B]	5		
BUS 271	Human Relations Business	5		
CMST 260	Multicultural Communication [C]	5		
Communication Studies - select 3-5 credits from the following:				
CMST 103	Workplace Communication	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		
	Subtotal	**16-20**		
	Total Credits Required	**149-154**		

Complete at least one-third of the total credits required (50 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.

Visit www.columbiabasin.edu/apprenticeship for a list of CBC affiliated apprenticeships.

Network Administrator Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 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	3		
CS 150	Computer Security	5		
CS 228	Windows Server	5		
	Subtotal	**30**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CS 223	UNIX/Linux	5		
CS 230	Active Directory	5		
CS 231	Network Infrastructure	5		
CS 232	Network Security	5		
CS 250	HTML5-JavaScript/JQuery	5		
Select 15 additional credits from the following:				
CS 123	PC Hardware	5		
CS 127	Windows Configuration	5		
CS 140	SharePoint	5		
CS 162	C++2 [M/S]	5		
or				
CS 202	Programming Fundamentals 2 [M/S]	5		
CS 221	SQL Server Administration	5		
CSIA 200	Computer Forensics Fundamentals	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&144	Precalculus I & 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 Studies - select 5-6 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:
MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a minimum grade of 2.0 is a prerequisite for all programming classes. Students must receive a minimum grade of 2.5 in all Computer Science courses.

Nuclear Technology Instrumentation & Control
Technician Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits	5		
ELT 134	Alternating Current Circuits	5		
ELT 154	Semiconductors and Op Amps	5		
ELT 171	Digital Fundamentals	5		
ELT 211	Applied Electronics	5		
IC 201	Instrumentation I	5		
IC 202	Instrumentation II	5		
IC 203	Instrumentation III	5		
IC 230	PLC Programming & Computer Interfacing	5		
NT 111	Basic Nuclear Math & Physics	5		
NT 114	Introduction to Radiation Safety	5		
NT 121	Reactor Plant Operations	4		
or				
NT 122	Basic Nuclear Facilities	4		
NT 131	Nuclear Facility Components	4		
NT 141	Basic Reactor Safety, Theory, & Operations	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance	5		
NT 150	Internship Seminar	1		
NT 152	Internship	1–5		
or				
NT 154	Industry Project	1–5		
NT 160	Nuclear Chemistry	3		
NT 170	Mechanical & Fluid Power Transmission	4		
	Subtotal	**77-81**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Chemistry - select 5-6 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 & Lab *or above*		5		
	Subtotal	**10-11**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
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		
English - select 5 credits from the following:				
ENGL&101	English Composition I [C]	5		
ENGL 103	Writing in the Workplace	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	**107-112**		

Students must receive minimum 2.0 grade in all ELT, IC, and NT courses.
Required minimum cumulative 2.0 GPA.

Degree & Certificate Requirements

Nuclear Technology Instrumentation & Control Technician One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits	5		
ELT 134	Alternating Current Circuits	5		
ELT 154	Semiconductors and Op Amps	5		
NT 111	Basic Nuclear Math & Physics	5		
NT 114	Introduction to Radiation Safety	5		
NT 121	Reactor Plant Operations	4		
or				
NT 122	Basic Nuclear Facilities	4		
NT 131	Nuclear Facility Components	4		
NT 141	Basic Reactor Safety, Theory, & Operations	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance	5		
	Subtotal	**38**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Chemistry - select 5-6 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 & Lab *or above*	5		
	Subtotal	**10-11**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
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		
English - select 5 credits from the following:				
ENGL&101	English Composition I [C]	5		
ENGL 103	Writing in the Workplace	5		
Mathematics - 5 credits:				
MATH&141	Precalculus I [M/S] [Q/SR]	5		
	Subtotal	**15**		
	Total Credits Required	**63-64**		

Students must receive minimum 2.0 grade in all ELT and NT courses.
Required minimum cumulative 2.0 GPA.

Nuclear Technology Non-Licensed Nuclear Operator Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits	5		
IC 250	Instrumentation & Control for Operators	5		
IC 260	Process Instrumentation	5		
NT 111	Basic Nuclear Math & Physics	5		
NT 114	Introduction to Radiation Safety	5		
NT 121	Reactor Plant Operations	4		
or				
NT 122	Basic Nuclear Facilities	4		
NT 131	Nuclear Facility Components	4		
NT 141	Basic Reactor Safety, Theory, & Operations	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance	5		
NT 150	Internship Seminar	1		
NT 152	Internship	1–5		
or				
NT 154	Industry Project	1–5		
NT 160	Nuclear Chemistry	3		
NT 170	Mechanical & Fluid Power Transmission	4		
NOP 111	Hydraulic and Fluid Flows	5		
NOP 221	Advanced Operational Systems	5		
NOP 231	Advanced Facility Components	5		
NOP 241	Chemical & Water Treatment Systems	5		
NOP 251	Advanced Thermodynamics and Heat Transfer	4		
	Subtotal	**71-75**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Chemistry - select 5-6 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 & Lab *or above*		5		
	Subtotal	**10-11**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
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		
English - select 5 credits from the following:				
ENGL&101	English Composition I [C]	5		
ENGL 103	Writing in the Workplace	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	**101-106**		

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

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits	5		
NT 111	Basic Nuclear Math & Physics	5		
NT 114	Introduction to Radiation Safety	5		
NT 121	Reactor Plant Operations	4		
or				
NT 122	Basic Nuclear Facilities	4		
NT 131	Nuclear Facility Components	4		
NT 141	Basic Reactor Safety, Theory, & Operations	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance	5		
	Subtotal	**28**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Chemistry - select 5-6 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 & Lab *or above*		5		
	Subtotal	**10-11**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
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		
English - select 5 credits from the following:				
ENGL&101	English Composition I [C]	5		
ENGL 103	Writing in the Workplace	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.

Nuclear Technology Radiation Protection Technician Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits	5		
NT 111	Basic Nuclear Math & Physics	5		
NT 121	Reactor Plant Operations	4		
or				
NT 122	Basic Nuclear Facilities	4		
NT 131	Nuclear Facility Components	4		
NT 141	Basic Reactor Safety, Theory, & Operations	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance	5		
NT 150	Internship Seminar	1		
NT 152	Internship	1–5		
or				
NT 154	Industry Project	1–5		
NT 160	Nuclear Chemistry	3		
NT 170	Mechanical & Fluid Power Transmission	4		
RPT 111	Radiation Fundamentals	5		
RPT 121	Radiation Monitoring	5		
RPT 131	Radiation Effects	5		
RPT 141	Radioactive Materials Handling	5		
RPT 211	Radiological Safety and Response	5		
RPT 222	Radiation Protection	5		
	Subtotal	**62-66**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Biology - 5 credits:				
BIOL&175	Human Biology w/ Lab [M/S]	5		
Chemistry - select 5-6 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 & Lab *or above*	5		
	Subtotal	**15-16**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
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		
English - select 5 credits from the following:				
ENGL&101	English Composition I [C]	5		
ENGL 103	Writing in the Workplace	5		
Mathematics - select 5-10 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	**97-107**		

Students must receive minimum 2.0 grade in all ELT, NT, and RPT courses.
Required minimum cumulative 2.0 GPA.

Nuclear Technology Radiation Protection Technician One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ELT 124	Direct Current Circuits	5		
NT 111	Basic Nuclear Math & Physics	5		
NT 121	Reactor Plant Operations	4		
or				
NT 122	Basic Nuclear Facilities	4		
NT 131	Nuclear Facility Components	4		
NT 141	Basic Reactor Safety, Theory, & Operations	5		
or				
NT 142	Basic Nuclear Safety & Environmental Compliance	5		
RPT 111	Radiation Fundamentals	5		
	Subtotal	**28**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Biology or Chemistry - select 5-6 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 & Lab *or above*		5		
	Subtotal	**10-11**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
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		
English - select 5 credits from the following:				
ENGL&101	English Composition I [C]	5		
ENGL 103	Writing in the Workplace	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 in Applied Science - Transfer (AAS-T)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
NRS 101	Basic Pharmacology Math	1		
NRS 102	Pharmacological Classifications I	1		
NRS 103	Pharmacological Classifications II	1		
NRS 111	Nursing I	7		
NRS 113	Nursing I Lab	4		
NRS 121	Nursing II	5		
NRS 123	Nursing II Lab	5		
NRS 131	Nursing III	5		
NRS 133	Nursing III Lab	5		
NRS 135	Nursing Trends Lab	4		
NRS 201	Pharmacological Classifications III	1		
NRS 211	Nursing IV	5		
NRS 213	Nursing IV Lab	5		
NRS 221	Nursing V	5		
NRS 223	Nursing V Lab	5		
NRS 222	Professional Issues I	1		
NRS 231	Nursing VI	5		
NRS 233	Nursing VI Lab	8		
NRS 232	Professional Issues II	2		
NRS 235	Nursing Trends Lab	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		
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		
	Subtotal	**15**		
	Total Credits Required	**117-120**		

Nursing Assistant Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
NA 100	Nursing Assistant	4		
NA 102	Nursing Assistant Lab	4		
	Total Credits Required	**8**		

Nursing Bachelor of Science (BSN)

2022-2023 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 340, AMGT 340, and HCAD 315. 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	Pathophysiology, 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		
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		
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/Care	3		
NRS 311	Foundations Skill Lab	2		
NRS 330	Acute Care Nursing Theory I	5		
NRS 331	Acute Care 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]	6		
BIOL&242	Human A&P 2 w/ Lab [M/S]	6		
BIOL&260	Microbiology w/ Lab [M/S]	6		
ENGL&101	English Composition I [C]	5		
CHEM&121	Intro to Chemistry w/ Lab [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		
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.

Occupational Safety & Health Technology Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
NT 111	Basic Nuclear Math & Physics	5		
OSH 101	Fundamentals of Occupational Safety & Health	5		
OSH 124	Industrial and Construction Safety Regulations	5		
OSH 147	Ethics, Documentation, and Records	4		
OSH 151	Accident Prevention, Inspection & Investigations	5		
OSH 152	Internship	5		
OSH 153	Risk Management	5		
OSH 177	Industrial Chemical Safety & Hazards	5		
OSH 231	Biological Hazards	5		
OSH 233	Fire Protection Systems	2		
OSH 235	Physical Hazards	5		
OSH 274	Safety Program Management	5		
OSH 280	Industrial Instrumentation and Equipment	5		
	Subtotal	**61**		

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		
OSH - select 4-5 credits from the following:				
OSH 230	Industrial Toxicology	5		
OSH 271	Fundamentals of Industrial Hygiene	4		
OSH 272	Ergonomics	4		
OSH 277	Environmental Management	5		
	Subtotal	**19-20**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
Communication Studies - 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	**100-101**		

Students must receive minimum 2.0 grade in all NT and OSH courses.
Required minimum cumulative GPA 2.0.

Operating Room Aide One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
SURG 101	Introduction to Surgical Technology	4		
SURG 111	Introduction to Surgical Technology Lab	3		
SURG 102	Perioperative Science	3		
SURG 112	Perioperative Science Lab	2		
SURG 103	Perioperative Patient Care	2		
SURG 113	Perioperative Patient Care Lab	1		
	Subtotal	**15**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology	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
ENGL&101	English Composition I [C]	5		
MATH&146	Introduction to Stats [M/S] [Q/SR]	5		
PSYC&100	General Psychology [S/B]	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		
	Subtotal	**20**		
	Total Credits Required	**55-58**		

Paramedic One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PMD 201	Paramedic I	6		
PMD 210	Paramedic I Lab	2		
PMD 202	Paramedic II	6		
PMD 220	Paramedic II Lab	3		
PMD 203	Paramedic III	6		
PMD 230	Paramedic III Lab	3		
PMD 204	Paramedic IV	6		
PMD 240	Paramedic IV Lab	3		
PMD 205	Paramedic V	6		
PMD 250	Paramedic V Lab	3		
PMD 206	Paramedic VI	6		
PMD 260	Paramedic VI Lab	3		
	Subtotal	**53**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EMT 101	Emergency Medical Technician-Basic	10-12		
	Subtotal	**10-12**		
	Total Credits Required	**63-65**		

Paramedicine Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PMD 201	Paramedic I	6		
PMD 210	Paramedic I Lab	2		
PMD 202	Paramedic II	6		
PMD 220	Paramedic II Lab	3		
PMD 203	Paramedic III	6		
PMD 230	Paramedic III Lab	3		
PMD 204	Paramedic IV	6		
PMD 240	Paramedic IV Lab	3		
PMD 205	Paramedic V	6		
PMD 250	Paramedic V Lab	3		
PMD 206	Paramedic VI	6		
PMD 260	Paramedic VI Lab	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 Business	5		
CS 101	Intro to Computers & Information Technology	5		
HSCI 147	Medical Terminology	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&101	English Composition I [C]	5		
ENGL&235	Technical Writing [C]	5		
PSYC&100	General Psychology [S/B]	5		
MATH&146	Introduction to Stats [M/S] [Q/SR]	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		
	Subtotal	**25**		
	Total Credits Required	**106-108**		

Parts Business Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AMT 107	Parts, Systems, and Components	4		
IHT 100	OSHA-10	1		
AMT 108	Parts Logistics Practicum	1		
INT 130	Logistics Technician	6		
CMST 103	Workplace Communication	3		
	Subtotal	**15**		

Major Support

Select 0-4 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CA 100	Introduction to Microcomputers	4		
INT 101	Forklift Operations	1		
	Subtotal	**0-4**		
	Total Credits Required	**15-19**		

Perioperative Nursing Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PON 101	Perioperative Nursing Theory I	6		
PON 111	Perioperative Nursing Lab	3		
PON 201	Perioperative Nursing Theory II	4		
PON 221	Perioperative Nursing Practicum	5		
	Total Credits Required	**18**		

Phlebotomy Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PHLEB100	Phlebotomy I	4		
PHLEB101	Phlebotomy I Lab	5		
	Total Credits Required	**9**		

Precision Agriculture Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
AG 101	Crop Production I Field Crops w/ Lab	4		
AG 107	Agriculture Safety	3		
AG 117	Agriculture Mechanics and Machinery w/ Lab	4		
AG 140	Weed Science w/ Lab	4		
AG 181	Irrigation Principles and Management w/ Lab	4		
AG 221	Introduction to Precision Agriculture	3		
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.				
AG 222	Advanced Precision Agriculture w/ Lab	4		
AG 250	GPS and GIS Applications w/ Lab	4		
CS 101	Intro to Computers & Information Technology	5		
AG 232	Crop Production II Fruit & Veg Production w/ Lab	4		
	Total Credits Required	**44**		

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.

Precision Machining Technology Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MT 111	Basic Machine Technology I	5		
MT 112	Basic Machine Technology I Lab	8		
MT 121	Basic Machine Technology II	5		
MT 122	Basic Machine Technology II Lab	8		
MT 131	Basic Machine Technology III	5		
MT 132	Basic Machine Technology III Lab	8		
MT 211	Advanced Machine Technology I	5		
MT 212	Advanced Machine Technology I Lab	8		
MT 221	Advanced Machine Technology II	5		
MT 222	Advanced Machine Technology II Lab	8		
MT 231	Advanced Machine Technology III	5		
MT 232	Advanced Machine Technology III Lab	8		
INT 105	Precision Measurement	1		
	Subtotal	**79**		

Major Support

Select 3-13 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 105	Blueprint Reading	3		
MT 102	SolidWorks(R) I	5		
MT 202	SolidWorks(R) II	5		
	Subtotal	**3-13**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH 100	Algebraic Tools for Vocational Application	5		
English - select 5 credits from the following:				
ENGL&101	English Composition I [C]	5		
ENGL 103	Writing in the Workplace	5		
ENGL&235	Technical Writing [C]	5		
Human Relations - select 3-5 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 Business	5		
Communication Studies - select 3-5 credits from the following:				
CMST 103	Workplace Communication	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	**98-112**		

Students must earn a minimum 2.0 grade in all MT, INT, and BPR courses.
Required minimum cumulative GPA 2.0.

Production Technician Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
INT 120	Production Technician	12		
	Subtotal	**12**		

Major Support

Select 0-2 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
IHT 100	OSHA-10	1		
INT 101	Forklift Operations	1		
	Subtotal	**0-2**		
	Total Credits Required	**12-14**		

Programming and Software Development Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 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	3		
CS 150	Computer Security	5		
CS 228	Windows Server	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 [M/S]	5		
or				
CS 202	Programming Fundamentals 2 [M/S]	5		
CS 236	Advanced Object Oriented Programming [M/S]	5		
CS 250	HTML5-JavaScript/JQuery	5		
CS 262	Game Programming Design and Development	5		
Select 15 credits from the following:				
CS 123	PC Hardware	5		
or				
CS 127	Windows Configuration	5		
CS 206	Database Design	5		
CS 221	SQL Server Administration	5		
CS 225	SQL Server Programming	5		
CS 260	Data Structures in C++	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&144	Precalculus I & 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 Studies - select 5-6 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:
MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a minimum grade of 2.0 is a prerequisite for all programming classes. Students must receive a minimum grade of 2.5 in all Computer Science courses.

Project Management Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management	5		
PROJ 110	Project Planning	5		
PROJ 120	Project Execution & Control	5		
PROJ 130	Introduction to Microsoft Project	5		
PROJ 211	Project Procurement	5		
PROJ 222	Project Quality Management	5		
PROJ 231	Project Risk Management	5		
PROJ 241	Project Management Capstone	5		
	Subtotal	**40**		

Major Support

See project management advisor for approved courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS& 101	Introduction to Business [S/B]	5		
BUS 271	Human Relations Business	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 10 credits from the following:				
BUS&201				
BUS 120	Personal Finance	5		
BUS 250	Management Information Systems	5		
BUS 262	Management Principles	5		
BUS 265	Marketing Principles	5		
PROJ 170	Project Management Internship	1–5		
PROJ 270	Project Management Internship	1–5		
PROJ 299	Special Studies	1–5		
	Subtotal	**30**		

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&144	Precalculus I & 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 Studies - 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.
- Minimum grade per distribution course 1.0.
- 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 counselor, completion coach, or faculty advisor.

Project Management Bachelor of Applied Science (BAS)

2022-2023 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 - 10 credits:				
ENGL&101	English Composition I [C]	5		
ENGL 410	Professional & Organizational Communication [C]	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&144	Precalculus I & 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		
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**		

Major Support Courses**
See program advisor for additional information

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management	5		
PROJ 110	Project Planning	5		
PROJ 120	Project Execution & Control	5		
PROJ 130	Introduction to Microsoft Project	5		
PROJ 211	Project Procurement	5		
PROJ 222	Project Quality Management	5		
PROJ 231	Project Risk Management	5		
PROJ 241	Project Management Capstone	5		
BUS& 101	Introduction to Business [S/B]	5		
BUS 271	Human Relations Business	5		
CS 101	Intro to Computers & Information Technology	5		
Business/Project Management - Select 10 credits from the following:				
BUS& 201	Business Law	5		
BUS 120	Personal Finance	5		
BUS 250	Management Information Systems	5		
BUS 262	Management Principles	5		
BUS 265	Marketing Principles	5		
PROJ 170	Project Management Internship	1–5		
PROJ 270	Project Management Internship	1–5		
PROJ 370	Project Management Internship	1–5		
PROJ 470	Project Management Internship	1–5		
PROJ 299	Special Studies	1–5		
	Subtotal	**65**		

Available concentrations: General or Construction
Choose one concentration from below:

Degree & Certificate Requirements

General

See program advisor for additional information

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 330	Project HR Management & Communication Skills	5		
PROJ 411	Advanced Microsoft Project	5		
PROJ 480	Advanced Project Management Capstone	5		
AMGT 310	Operations Management	5		
AMGT 310 is cross-listed with AG 310 and HCAD 310. A student may not use equivalent cross-listed courses for the same graduation requirement.				
General Electives - select 25 credits from the following:				
CMST 415	Applied Professional Communication	5		
AMGT 300	Management & Organization Theory	5		
AMGT 320	Leadership & Organization Behavior	5		
AMGT 360	Business Planning and Strategy	5		
AMGT 417	Contemporary Issues in Business & Management	1–5		
AMGT 420	Human Resource Management	5		
AMGT 420 is cross-listed with HCAD 420. A student may not use equivalent cross-listed courses for the same graduation requirement.				
AMGT 430	Fundamentals of Financial Management	5		
AMGT 430 is cross-listed with AG 430. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Subtotal	**55**		

Construction

See program advisor for additional information

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 330	Project HR Management & Communication Skills	5		
PROJ 411	Advanced Microsoft Project	5		
PROJ 480	Advanced Project Management Capstone	5		
AMGT 310	Operations Management	5		
AMGT 310 is cross-listed with AG 310 and HCAD 310. A student may not use equivalent cross-listed courses for the same graduation requirement.				
ENT 111	Introduction to Engineering	5		
ENT 114	Introduction to Drafting	4		
ENT 122	Materials	3		
ENT 128	Architecture & Engineering Blueprint Reading	2		
or				
BPR 110	Basic Blueprints and Drawings	3		
ENT 219	Construction Estimating	1		
Select 10 to 11 credits from the following:				
ENT 134	Surveying w/ Lab	6		
CMST 415	Applied Professional Communication	5		
AMGT 320	Leadership & Organization Behavior	5		
	Subtotal	**55-57**		
	Total Credits Required	**180-182**		

Note:

*Course selections must meet the distribution requirements for the BAS degree.

**Course 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 Project Management (PROJ) courses.
- Required minimum cumulative GPA 2.0.
- Minimum grade per distribution course 1.0.
- 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 counselor, completion coach, or faculty advisor.

Project Management One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
PROJ 100	Introduction to Project Management	5		
PROJ 110	Project Planning	5		
PROJ 120	Project Execution & Control	5		
PROJ 130	Introduction to Microsoft Project	5		
	Subtotal	**20**		

Major Support

See Project Management advisor for approved courses

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

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL&101	English Composition I [C]	5		
MATH&107	Math in Society [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 Studies - 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.
- Minimum grade per distribution course 1.0.
- 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 counselor, completion coach, or faculty advisor.

Radiologic Technology Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 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		
RATEC102	Radiographic Physics	5		
RATEC103	Principles of Radiographic Exposure	3		
RATEC104	Advanced Radiographic Procedures	4		
RATEC105	Introduction to Radiographic Technique	2		
RATEC106	Computed Imaging	2		
RATEC107	Positioning and Related Anatomy I	2		
RATEC108	Positioning and Related Anatomy II	3		
RATEC109	Positioning and Related Anatomy III	3		
RATEC111	Clinical Education I	5		
RATEC112	Clinical Education II	5		
RATEC113	Clinical Education III	5		
RATEC120	Nursing Procedures	2		
RATEC121	Patient Care	2		
RATEC127	Introduction to Sectional Anatomy	2		
RATEC207	Concept Integration	2		
RATEC210	Clinical Education IV	13		
RATEC211	Clinical Education V	8		
RATEC212	Clinical Education VI	8		
RATEC213	Clinical Education VII	8		
RATEC220	Pathology I	3		
RATEC221	Pathology II	2		
RATEC240	Radiation Biology and Protection	3		
RATEC296	Special Topics in Radiology	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	5		
	Subtotal	**15-17**		

Degree & Certificate Requirements

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ENGL&101	English Composition I [C]	5		
PSYC&100	General Psychology [S/B]	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 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		
	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.

Sales Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Select 12-14 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BUS 103	Principles of Sales	5		
BUS 265	Marketing Principles	5		
BUS 267	Marketing Special Projects	2-4		
	Subtotal	**12-14**		

Communication Studies

Select 3-5 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
CMST 103	Workplace Communication	3		
CMST 110	Communication Behavior [C]	3		
CMST&210	Interpersonal Communication [C]	5		
CMST 260	Multicultural Communication [C]	5		
	Subtotal	**3-5**		
	Total Credits Required	**15-19**		

Solid Modeling for Manufacturing Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MT 102	SolidWorks(R) I	5		
MT 202	SolidWorks(R) II	5		
BPR 105	Blueprint Reading	3		
	Total Credits Required	**13**		

Spanish Medical Interpreting Short-Term Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 148	Spanish Medical Interpreting I	5		
HSCI 148 is cross-listed with SPAN 281. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HSCI 149	Spanish Medical Interpreting II	5		
HSCI 149 is cross-listed with SPAN 282. A student may not use equivalent cross-listed courses for the same graduation requirement.				
HSCI 150	Spanish Medical Interpreting III	5		
HSCI 150 is cross-listed with SPAN 283. A student may not use equivalent cross-listed courses for the same graduation requirement.				
	Total Credits Required	**15**		

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

State Early Childhood Education One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED&105	Intro to Early Childhood Education	5		
ECED&107	Health/Safety/Nutrition	5		
EDUC&115	Child Development	5		
ECED&120	Practicum-Nurturing Relationships	2		
EDUC&130	Guiding Behavior	3		
or				
ECED&170	Environments for Young Children	3		
EDUC&150	Child/Family/Community	3		
ECED&160	Curriculum Development	5		
ECED&180	Language & Literacy Development	3		
ECED&190	Observation/Assessment	3		
	Subtotal	**34**		

Major Support

Select 3 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
EDUC&130	Guiding Behavior	3		
ECED&132	Infants & Toddlers--Nurturing Care	3		
ECED&134	Family Child Care Management	3		
EDUC&136	School Age Care	3		
ECED&138	Home Visitor/Family Engagement	3		
ECED&139	Administration of ECE	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	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

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED&105	Intro to Early Childhood Education	5		
ECED&107	Health/Safety/Nutrition	5		
ECED&120	Practicum-Nurturing Relationships	2		
	Total Credits Required	**12**		

Degree & Certificate Requirements

State Short Early Childhood Education Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED&105	Intro to Early Childhood Education	5		
ECED&107	Health/Safety/Nutrition	5		
EDUC&115	Child Development	5		
ECED&120	Practicum-Nurturing Relationships	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	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	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	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	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	3		
	Subtotal	**3**		
	Total Credits Required	**20**		

Specialization - Administration

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
ECED&139	Administration of ECE	3		
	Subtotal	**3**		
	Total Credits Required	**20**		

Sterile Processing Technician Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
SPT 100	Foundations of Sterile Processing	6		
SPT 150	Sterile Processing Clinical	12		
	Subtotal	**18**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology	5		
	Subtotal	**5**		
	Total Credits Required	**23**		

Degree & Certificate Requirements

Surgical Technology Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
SURG 101	Introduction to Surgical Technology	4		
SURG 111	Introduction to Surgical Technology Lab	3		
SURG 102	Perioperative Science	3		
SURG 112	Perioperative Science Lab	2		
SURG 103	Perioperative Patient Care	2		
SURG 113	Perioperative Patient Care Lab	1		
SURG 106	Pharmacology for the Surgical Technologist	5		
SURG 107	Surgical Procedures I	8		
SURG 117	Surgical Procedures I Lab	3		
SURG 202	Central Service	1		
SURG 222	Central Service Clinical	1		
SURG 223	Operating Room Practicum I	8		
SURG 207	Surgical Procedures II	8		
SURG 208	Surgical Seminar	3		
SURG 209	Ethics & Professionalism	2		
SURG 224	Operating Room Practicum II	10		
	Subtotal	**64**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
HSCI 147	Medical Terminology	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
ENGL&101	English Composition I [C]	5		
MATH&146	Introduction to Stats [M/S] [Q/SR]	5		
PSYC&100	General Psychology [S/B]	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		
	Subtotal	**20**		
	Total Credits Required	**104-107**		

Teacher Education Bachelor of Applied Science (BAS)

2022-2023 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	3		
ECED&105	Intro to Early Childhood Education	5		
ECED&107	Health/Safety/Nutrition	5		
EDUC&115	Child Development	5		
ECED&120	Practicum-Nurturing Relationships	2		
ECED 124	Children's Literature	3		
ECED 122	Math & Science	3-5		
EDUC&130	Guiding Behavior	3		
ECED&132	Infants & Toddlers--Nurturing Care	3		
EDUC&150	Child/Family/Community	3		
ECED 151	Supervised Practicum	3		
ECED 152	Supervised Practicum Lab	1		
ECED&160	Curriculum Development	5		
ECED&170	Environments for Young Children	3		
ECED&180	Language & Literacy Development	3		
ECED&190	Observation/Assessment	3		
EDUC&203	Exceptional Child	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		
ECED 340	Assessment and Evaluation	5		
ECED 365	Observations, Documentation, and Monitoring	3		
ECED 370	Adaptations, Modifications, and Planning	5		
ECED 385	Advanced Language and Literacy Methods	3		
ECED 395	Equity and Social Justice	3		
ECED 479	Fall Student Teaching	15		
ECED 489	Winter Student Teaching	15		
ECED 499	Spring Student Teaching	15		
	Subtotal	**133-135**		

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**		

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		
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	**193-195**		

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

Welding Technology Associate in Applied Science (AAS)

PROFESSIONAL TECHNICAL

2022-2023 Degree Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
WT 101	Oxy-Acetylene Process	1		
WT 111	Oxy-Acetylene Process Lab	3		
WT 112	Introduction to Shield Metal Arc Welding	9-10		
WT 103	Fundamentals Major Processes & their Consumables	5		
WT 113	Advanced Shield Metal Arc Welding	9-10		
WT 140	Shield Metal Arc Certification Preparation	1–5		
WT 141	Shield Metal Arc Welding Certification	1–5		
WT 107	Fabrication Principles Review	4		
WT 108	Fabrication Technique I	1		
WT 181	Fabrication Techniques I Lab	3		
WT 201	Weldability of Metals	5		
WT 211	Introduction to Pipe Welding	9-10		
WT 202	Welding Inspection	5		
WT 222	Gas Tungsten Arc Welding (TIG)	9-10		
WT 231	Pipe Welding Certification	9-10		
WT 208	Fabrication Technique II	1		
WT 281	Fabrication Technique II Lab	3		
BPR 106	Blueprint Reading I (WT)	3		
BPR 206	Blueprint Reading II (WT)	3		
DRW 106	Mechanical Drawing for Vocational Application	3		
	Subtotal	**87-100**		

Major Support

Select 0-3 credits from the following:

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
WT 195	Supervised Employment	1–3		
	Subtotal	**0-3**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH 100	Algebraic Tools for Vocational Application	5		
English - select 5 credits from the following:				
ENGL&101	English Composition I [C]	5		
ENGL 103	Writing in the Workplace	5		
Human Relations - select 3-5 credits from the following:				
PSYC 103	Applied Psychology	3		
PSYC&100	General Psychology [S/B]	5		
BUS 271	Human Relations Business	5		
Communication Studies - select 3 credits from the following:				
CMST 103	Workplace Communication	3		
CMST 110	Communication Behavior [C]	3		
	Subtotal	**16-18**		
	Total Credits Required	**103-121**		

Note:

Students must earn a minimum 2.0 grade in all WT, BPR, and DRW courses.

Required minimum cumulative GPA 2.0

WT 112, 113, 140, 141, 211, 222 and 231 are variable credit courses. Variable credit courses taken of the same class in the evening must be done within four consecutive quarters.

Welding Technology Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
WT 101	Oxy-Acetylene Process	1		
WT 111	Oxy-Acetylene Process Lab	3		
WT 112	Introduction to Shield Metal Arc Welding	9-10		
WT 103	Fundamentals Major Processes & their Consumables	5		
WT 113	Advanced Shield Metal Arc Welding	9-10		
WT 108	Fabrication Technique I	1		
WT 181	Fabrication Techniques I Lab	3		
	Subtotal	**31-33**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 106	Blueprint Reading I (WT)	3		
DRW 106	Mechanical Drawing for Vocational Application	3		
	Subtotal	**6**		
	Total Credits Required	**37-39**		

Note:

Students must earn a minimum 2.0 grade in all WT, BPR, and DRW 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.

Degree & Certificate Requirements

Welding Technology One-Year Certificate

PROFESSIONAL TECHNICAL

2022-2023 Certificate Requirements

Major Courses

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
WT 101	Oxy-Acetylene Process	1		
WT 111	Oxy-Acetylene Process Lab	3		
WT 112	Introduction to Shield Metal Arc Welding	9-10		
WT 103	Fundamentals Major Processes & their Consumables	5		
WT 113	Advanced Shield Metal Arc Welding	9-10		
WT 140	Shield Metal Arc Certification Preparation	1–5		
WT 141	Shield Metal Arc Welding Certification	1–5		
WT 108	Fabrication Technique I	1		
WT 181	Fabrication Techniques I Lab	3		
	Subtotal	**33-43**		

Major Support

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
BPR 106	Blueprint Reading I (WT)	3		
DRW 106	Mechanical Drawing for Vocational Application	3		
	Subtotal	**6**		

General Education

Course Number	Course Title	Credits	Qtr. Completed	Comments / Substitution
MATH 100	Algebraic Tools for Vocational Application	5		
English - select 5 credits from the following:				
ENGL&101	English Composition I [C]	5		
ENGL 103	Writing in the Workplace	5		
Human Relations - select 3-5 credits from the following:				
PSYC 103	Applied Psychology	3		
PSYC&100	General Psychology [S/B]	5		
BUS 271	Human Relations Business	5		
Communication Studies - select 3 credits from the following:				
CMST 103	Workplace Communication	3		
CMST 110	Communication Behavior [C]	3		
	Subtotal	**16-18**		
	Total Credits Required	**55-67**		

Note:

Students must earn a minimum 2.0 grade in all WT, BPR, and DRW courses.

Required minimum cumulative GPA 2.0

WT 112, 113, 140 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
- Create financial statements
- Analyze financial statements
- Prepare business reports from financial data
- Analyze business reports
- Synthesize ideas to communicate professionally
- Perform accounting and reporting functions using accounting technology

AOT Administrative Office Technology

Administrative Office Technology (AOT) provides students with coursework to support positions in various and often specialized types of office environments.

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 at the Transition Center on the Pasco campus and online.

We offer classes in reading, writing, math, and content areas. Each student is assessed for reading, writing, and math levels and placed into an appropriately leveled class environment.

Our courses serve the needs of adult students seeking a high school equivalency degree 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 systems and allow you to develop specialized knowledge of business management in agriculture and related areas. 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

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. Students will develop their ability to think critically and communicate through both spoken and written media. See also Biology, Horticulture, Agricultural Food Systems and Animal Science for courses required to earn an Associate in Arts and Sciences with an emphasis in Agriculture, an Associate in Arts and Sciences with an emphasis in Crop and Soil Science, an Associate in Applied Science in Agriculture Production and an Associate in Applied Science in Agribusiness. Certificates in Crop and Soil, Hydroponics and Greenhouse Management, and Precision Agriculture are also options. Finally, a Bachelor of Applied Science (BAS) in Applied Management with a concentration in Agriculture is also available. The BAS degree is designed for those who have earned an Associate in Applied Science (AAS) degree but lack the broader business-related education needed to move into leadership positions. Many AAS holders have reached a plateau in their career, unable to advance because they cannot meet the bachelor's degree requirements for many supervisory positions. Recent two-year graduates who wish to continue their education may also find this degree a good alternative. The BAS degree will broaden career opportunities and help graduates climb the career ladder leading to improved chances for promotion to management positions. The Agriculture concentration focuses on management strategies and technologies specific to the agriculture industry.

ANTH Anthropology

The department features introductory courses in Anthropology designed to acquaint students with the study of humans, their natural history, their present day variation and their cultural development. Students are expected to develop an understanding of human biological and sociocultural evolution through research, critical thinking and writing. Students interested in pursuing the study of Anthropology can follow an academic map of recommended courses to prepare for a major in Anthropology.

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

The Astronomy program is 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

The Automotive Technology program is a comprehensive two-year course combining classroom instruction and hands-on training. The program is based on the eight Automotive Service Excellence (A.S.E.) topics in the National Technicians Certification Program to prepare students for the A.S.E. mechanic certification tests.

CBC's Automotive faculty aim to bring innovative technology into the classroom and the lab. 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.

For more information, call 509-542-4804.

At the end of the program, successful students will be able to:

- Troubleshoot and repair front and rear wheel drive manual and automatic transmissions, transaxles and differentials
- Diagnose and repair electrical and electronic automotive circuits
- Troubleshoot and repair engine mechanical, cooling and lubrication systems
- Diagnose and repair brake and electronic braking systems
- Troubleshoot and repair steering and suspension systems
- Diagnose and repair heating, ventilation and air conditioning systems
- Troubleshoot and repair engine performance related issues and drivability concerns
- Review, interpret and convey written, verbal and graphic information to communicate effectively with co-workers, management and customers
- Act responsibly and ethically as an employee by being punctual, following industry accepted practices, adhering to company policies and interacting positively and appropriately with co-workers, supervisors and customers

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 graduation requirements for the non-science major to obtain an Associate in Arts and Sciences degree (BIOL& 100, BIOL& 175, BIOL 140, BIOL 148)
- Meet the entrance or support course requirements for the Health Sciences (Nursing, Dental Hygiene, Physical & Occupational Therapy, Paramedic/EMT, etc.) 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 elective and/or general interest to 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 Machine Technology and Welding 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 meet students of different backgrounds, career goals and professional/academic needs. Such options include the Business Associate in Arts & Sciences (AA/DTA/MRP) which allows students to seamlessly transfer to four-year university programs and/or the Business Administration Associate in Applied Science (AAS) which allows students to choose a concentration among the courses to build specific skills and transfer directly into CBC's Bachelor of Applied Science in Applied Management program. Students can also take advantage of our many shorter-term certificate programs to get the skills they need in a rapid manner.

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

Department Overviews

CHEM Chemistry

The chemistry program at CBC engages students in hands-on courses that support each student's personal, academic and professional goals by guiding students to develop a fundamental understanding and appreciation of the central science and its consistent and diverse impact on our lives. Our chemistry courses:

- Fulfill graduation requirements for the non-science major to obtain an Associate in Arts and Sciences degree (CHEM& 110)
- 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, etc.) 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).

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.

CSRE Community Education

The Community Education department offers a variety of opportunities for the lifelong learner to take courses for professional development or personal enrichment.

CA Computer Applications

These courses are offered for students wishing 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). 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.

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 CS curriculum aligns with specific focus areas defined by the National Security Agency/ Department of Homeland Security as part of their Center of Academic Excellence (CAE) program.

Students may earn the following:

Certificate:

- Computer and Information Technology

Two-year Associate in Applied Science (AAS) degrees:

- Cyber Security
- Database Administrator
- Information Technology
- IT Support Technology
- Network Administrator
- Programming and Software Development

Four-year Bachelor of Applied Science (BAS) degrees:

- Cybersecurity
- Information Technology

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 the 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, night, online and hybrid.

The CBC Computer Science department acknowledges that students may have mastered specific skills and competencies outside of the formal classroom experience. For example, you may have gained work-place experience or may be self-taught. Both CBC and the Computer Science department recognize various non-traditional programs and will possibly award a student college credit and/or placement in advanced classes. In accordance with the CBC Non-traditional Credit Policy, the Computer Science department provides two methods for earning nontraditional credit and/or placement: passing a challenge test or presenting proof of a current industry certification.

The Computer Science department has also developed articulation agreements with several of the local school districts. These articulation agreements grant students college credit for taking relevant high school classes. Students in the local K-12 school districts should check with their advisors for the availability of these classes.

Graduates in Computer Science will be able to:

- Solve a problem using appropriate computing algorithms and techniques
- Analyze impact of computer systems on organizations, society, and the individual
- Apply concepts relating to computer systems (database systems, security, hardware, software, programming languages, and networks)
- Perform the basics of computer and network security.
- Discuss the professional, ethical, and societal issues and responsibility.
- Communicate with customers, supervisors, and co-workers.
- Identify risks, assess threats, and develop solutions to protect computer assets and data.

CSIT Computer Science Information Technology

Computer Science Information Technology (CSIT) is a course prefix designated for upper level (300-400) courses. Currently, the CSIT courses are required for the Bachelor of Applied Science in Information Technology (BAS IT) 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 IT 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:

- Protect an organization's critical information systems and assets by ethically integrating best practices in

security, risk management and business continuity throughout an enterprise
- Design, develop and implement database solutions
- Understand data retrieval, communication and security issues dealing with data assurance
- Recognize problems and manipulate data using programming techniques, software tools and technologies to solve problems
- Formulate, update and communicate short- and long-term organizational strategies and policies

CJ Criminal Justice and Forensics

Are you interested in exploring a career in Corrections, Law Enforcement or taking on a role in our judicial system? By studying Criminal Justice, you'll explore the theories behind crime and punishment, juvenile delinquency, drug and alcohol addiction and other criminal justice areas.

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+, CCNA, SSCP, and CEH. The cybersecurity program is certified as a national center of academic excellence (CAE2Y). CBC also has a cooperative agreement with the University of Washington which allows limited cross-enrollment in UW Cyber Security courses.

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

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 website. 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 for the science courses (A&P I and II, Microbiology and Chemistry) prior to admission to the program.

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 Chemistry w/ Lab: CHEM& 121
- Intro to Organic Chemistry w/ Lab: CHEM& 122
- English Composition I: ENGL& 101
- 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

Course Substitutions:

- CHEM& 140 or CHEM& 161 may be substituted for CHEM& 121
- CHEM& 131 may be substituted for CHEM& 122

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.

ECED Early Childhood Education

Early Childhood Education (ECED) is a professional technical program designed to prepare students for employment in a variety of early care and educational settings. Course content focuses on the educational and developmental needs of young children from birth to age eight. The ECED program combines theory and practical experience with emphasis placed on active student involvement. Course work includes participation, observation and practical experience.

Students may enroll in the ECED program at the beginning of any quarter on either a full- or part-time basis. Most courses are offered in the evenings or on Saturdays to accommodate the varied schedules of working students. Some courses will be offered in Spanish to support the development of dual language educators. Additional class options are listed in the Education section. Credentials are recognized by Washington State Department of Children, Youth, and Families (DCYF).

Degrees and Certificates Offered

- Bachelor of Applied Science (BAS) in Teacher Education degree (with WA state licensure in PreK-3)
- Associate in Applied Science (AAS) in Early Childhood Education degree
- State Early Childhood Education One-Year Certificate
- State Short Early Childhood Education Certificate
- State Initial Early Childhood Education Short-Term Certificate
- Child Development Associate (CDA) Short-Term Certificate

Program Goals

Upon completion of the program, successful students will demonstrate both practical skills and foundational knowledge of best practices in early care and education in order to:

- Understand and apply the principles of child development and learning for children birth to age eight
- Create a nurturing child-centered environment that considers the needs of the whole child
- Design curriculum and assessments that are developmentally appropriate and responsive to the diverse needs of children
- Practice current first-aid, health and safety techniques
- Demonstrate the ability to select guidance strategies tailored to the unique needs of each child
- Utilize core knowledge of the early childhood field to demonstrate intentional decision-making about policies and practices for children

- Engage with children, families, colleagues, community and society ethically and professionally
- Enter the workforce prepared to deliver quality services to young children and their families

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 courses provide introductory coursework in teacher education for applied degrees like CBC's AAS in Early Childhood Education, CBC's BAS in Teacher Education, or transfer majors at other four-year colleges and universities. Most courses are offered in the evenings or on Saturdays to accommodate the varied schedules of working students.

ELT Electronics

Electronics courses are offered in support of short-term certificate and degree programs such as Nuclear Technology. Courses are designed to offer a basic 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 CBC website along with detailed instructions for completion of the application. EMT classes are held during the daytime on Tuesdays and Thursdays. The EMT-B course is 12 weeks long.

The responsibilities of the Advanced Emergency Medical Technician (AEMT) are to provide basic and limited advanced emergency medical care and transportation for critical and emergent patients who access the emergency medical system. It is not necessary to take the AEMT course in order to progress to the Paramedic program. The AEMT course is offered as needed.

The objectives of the AEMT courses are to prepare students to achieve certification as a National Registered Advanced EMT to serve in the rural areas of SE Washington. The courses cover application of protocols, refining EMT skills and knowledge, IV therapy and medication administration of Washington state approved medications for the AEMT, necessary psychomotor skills through breakout labs and group exercises and internships. Students must pass EMT 103 and 104 with a cumulative grade of 2.5 or better to be eligible for a short-term certificate and eligible to take the National Registry Exam.

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 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. Along with preparation for college-level writing, courses include expository, research, and workplace writing; creative writing; as well as writing in medical professions, business, and project management. Literature courses, ranging from English, American, to world and specialized literature, teach students to read closely, think critically, and communicate effectively. The skills learned in these classes are essential to careers in law, digital design, business, science, engineering to education, politics, marketing, and health care.

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 problems that have arisen due to human activities. Courses deal with the interrelationships of soil, air and water as they are affected by human activities. Students are challenged to think critically about their lifestyle choices and how these choices affect their immediate environment in the short term and the biosphere in the long run. Education of students is the key that opens their minds to the possibility that humans do, in fact, 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.

Department Overviews

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 CBC 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.

CBC 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: columbiabasin.edu/learn/discover-your-path/arts-humanities-communication/world-languages/index.html.

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 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 Math/Science 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. Physical Geology II is an introductory study in geomorphology-a study of earth's landforms through processes that build them. 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 department offers a variety of classes designed to enhance students' knowledge about a healthy lifestyle and/or help the student learn first-aid skills and accident prevention.

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. The BASHP program graduates will be able to:

1. Apply knowledge of mathematics, science, and engineering;
2. Design and conduct experiments, as well as to analyze and interpret data;
3. 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;
4. Function on multi-disciplinary teams;
5. Identify, formulate, and solve engineering problems;
6. Use the techniques, skills, and modern engineering tools necessary for engineering practice;
7. Apply knowledge of atomic and nuclear physics to nuclear and radiological systems and processes;
8. Apply knowledge of transport and interaction of radiation with matter to nuclear and radiation processes;
9. Measure nuclear and radiation processes;
10. Identify professional and ethical responsibility;
11. Explain the impact of engineering solutions in a global, economic, environmental and societal context; and
12. 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.

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

The History program offers a variety of general and more specialized courses in U.S. and World History. The program's goal is to broaden the student's historical knowledge and to cultivate a historical awareness that allows the student to think and write critically about human society. History courses develop skills that are in high demand across a range of careers, from business to government to the law. CBC offers an academic map of suggested courses for students interested in preparing for a major in History.

HORT Horticulture

Horticulture is the science and art of growing plants for food, personal enjoyment and environmental enhancement. Horticulture includes the production, marketing and utilization of fruit and vegetable products that improve health and well-being, shade trees that reduce the urban heat island effect, bedding plants that increase business profits and interior plants that reduce stress and enhance productivity. See also Agriculture, Agricultural Food Systems and Animal Science for courses required to earn an Associate in Arts and Sciences with an Emphasis in Agri-Business.

HSP Hospitality

A career in hospitality offers an exciting professional future that allows someone to put their goals, interests and abilities to good use in a field of limitless potential. Whether it's conference or convention centers, resorts, cruise ships, restaurants, wineries, hotels, or vacation destinations, the hospitality industry needs employees with specialized skills. This program prepares students for entry into the industry by providing those specialized skills with industry certifications. The hospitality industry offers good, high-paying jobs with opportunities for advancing to top-level positions.

HDEV Human Development

Human Development (HDEV) courses at Columbia Basin College 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 program.

IHT Industrial Hygiene Technology

Industrial Hygiene Technology courses focus on implementing and enforcing safety standards. Currently, IHT courses support safety practices in existing programs.

INT Industrial Technology

Certified Logistic Technician (CLT)
A Logistics Technician works with the world of supply chain and logistics. Logistics is the activity of transporting goods to customers. Students learn the activities involved in handling materials through the supply chain including product receiving and storage, order processing, packaging and shipping, inventory control, handling hazmat, transportation modes and dispatch and tracking. The Tri-Cities area has many companies that require people with these skills and are waiting to interview students with these skills for current job openings. The CLT program is 11 weeks long (one quarter) and students that successfully complete the course receive nationally portable, industry-recognized certification.

Certified Production Technician (CPT)
The Certified Production Technician program prepares workers for high-performance, technologically-advanced production jobs in all sectors of manufacturing. Students learn critical work functions in the following areas: safety (including intro to manufacturing and work-readiness skills), quality practices and measurement, manufacturing processes and production and maintenance awareness. The Tri-Cities area has many companies that require people with these skills and are waiting to interview students with these skills for current job openings. The CPT program is 11 weeks long (one quarter) and students that successfully complete the course receive nationally portable, industry-recognized certification.

Troubleshooting for Technicians
This course is designed to boost the efficiency and effectiveness of troubleshooting by teaching today's technicians a proven logical approach to solving problems. The course consists of both lecture and hands-on practice using computer simulations of industrial systems and related test equipment. Using the Path of Influence and Four-Step process along with the troubleshooting simulation, the technician analyzes the fault and chooses maintenance actions such as continuity tests, bench checking and swapping that might correct the problem. The logic used is evaluated as well as the time and expenses incurred by the technician to solve the problem.

Department Overviews

IC Instrumentation and Control

Instrumentation and control courses support the Nuclear Technology program. Instrumentation and control requires highly skilled people who understand electrical, mechanical, hydraulic and pneumatic principles in the installation, operation and maintenance of instrumentation, and process control systems.

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 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: columbiabasin.edu/learn/discover-your-path/arts-humanities-communication/world-languages/index.html.

MNT Maintenance

The Maintenance program offers two short-term certificates to provide students a foundation in the fundamentals of maintenance, blueprint reading, hydraulic systems, electricity, welding and machine operations. Maintenance mechanics are responsible for the management and operation of production machinery.

MT Manufacturing Technology

Every manufactured part from aerospace and automobiles, to computers, cell phones and motorcycles, virtually everything man-made is touched by machinists. A machinist is a skilled metal worker who makes parts out of metal, plastic and composites with machine tools such as lathes, milling machines, precision grinders and Computer Numerical Controlled (CNC) machines. A machinist can set up and operate most types of machines and has an understanding of what the various machine tools do. Machinists turn a block of material into intricate parts that meet precise specifications. Machinists use precision-measuring instruments such as micrometers, optical comparators and gages to measure the accuracy of their work to thousandths of an inch. The CBC Manufacturing Technology curriculum includes trade support theory courses in conjunction with laboratory training and general education courses. For more information, call 509-542-4804.

At the end of the program, successful students will be able to:

- Demonstrate machining skills on manual machine tools such as lathes, milling machines, surface grinders, drill presses, sawing machines and measuring tools, as well as blueprint reading and other skills
- Operate high tech equipment, such as computer coordinate measuring systems (CMM)
- Set-up, operate and maintain Computer Numerical Control (CNC) machines
- Demonstrate skills in computer-aided drafting (CAD) and computer-aided manufacturing (CAM)
- Use math and problem-solving skills to produce parts with machining tools
- Inspect and measure parts to specified tolerances
- Demonstrate appropriate employment skills necessary for industry employment

MATH Mathematics

Mathematics courses are required by a vast number of technical, occupational and academic disciplines. The Math department seeks to support these needs by providing a full range of courses for students seeking degrees and certificates and students seeking to transfer to baccalaureate institutions. Additionally, courses are provided for students who require developmental math.

MA Medical Assistant

The Columbia Basin College 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.

The Columbia Basin College 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, 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.

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

Due to an aging workforce and resurgence of interest in nuclear power generation, nuclear technicians are in high demand. The Nuclear Technology program allows students to specialize in nuclear facility clean-up activities at the Hanford Reservation or in reactor plant operation at the Columbia Generating Station. The curriculum follows the common curriculum standards adopted by the nuclear industry.

Program Mission

The mission of the Nuclear Technology program is to provide students the technical expertise, critical and analytical skills, interpersonal skills and knowledge needed to begin a successful career in the nuclear and other associated industries.

Program Goals

Graduates of the Nuclear Technology program will be able to effectively address the needs of the nuclear industry by:

- Applying relevant theory and techniques from mathematics, physics and chemistry to effectively understand, communicate and/or operate nuclear systems, structures and components promoting excellence and safety
- Effectively and accurately applying, understanding and communicating nuclear technology related concepts
- Effectively and accurately applying, understanding and communicating basic knowledge of nuclear facilities operations
- Understanding nuclear fundamentals, systems, tools and equipment
- Applying skills pertinent to each discipline minimizing personnel exposure to radiation and/or hazardous materials
- Applying, understanding and communicating radiological protection theory and techniques promoting excellence and safety
- Understanding and communicating nuclear facilities, design, theory and/or operations

NRS Nursing

Columbia Basin College offers an Accreditation Commission for Education in Nursing (ACEN) Associate Degree in Nursing program. The 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 at columbiabasin.edu/nursing. 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 102
- Lifespan Psychology: PSYC& 200
- Microbiology with lab: BIOL& 260
- Math: Introduction to Stats, MATH& 146
- Communication Studies: CMST 260 or CMST& 101 or 210 or 220

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 (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 *(program pending approval from the Nursing Care Quality Assurance Commission):*

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)
- ENGL& 101 English Composition I (or equivalent), ENGL&102 Composition II (or equivalent), or ENGL&235 Technical Writing (or equivalent)
- CMST option 101, 210, 220, or 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 50 clinical hours during the quarter. These hours include time in the campus laboratory and a minimum of 36 clinical hours in a local healthcare facility. 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 will explore energy balance, weight control issues, nutritional assessment and improvement of health and wellness. This class will also cover special nutritional requirements at different stages of the lifecycle. Economic, cultural, and psychological 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.

Department Overviews

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 over two thousand 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 and summer quarter, providing frequent opportunities to start your EMS education. 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 in order 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 by going to columbiabasin.edu/apply.
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 as per WAC 246-976-0471.
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 as long as 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: In order 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 050 (previously known as MATH 094, MATH 095 or MATH 098) with a 2.0 or greater. If you have completed a higher level of math, that would be acceptable. Or, if you have completed an AAS or bachelor's degree that included a math course, that would be acceptable.
8. Attendance of a mandatory paramedic information session.

PON Perioperative Nursing

Perioperative nurses are Registered Nurses (RNs) with special training, knowledge and skills in surgical patient care. Perioperative nurses work in hospital operating rooms and surgical services departments, ambulatory surgery centers, physician offices and other specialty facilities providing care to patients during the course of a surgical procedure. They work closely with surgeons, anesthesia providers, surgical technologists and other operating room professionals. Traditionally, the perioperative nurse may serve as either a scrub nurse or a circulating nurse. In the scrub role, the perioperative nurse establishes and maintains the sterile field, anticipates the needs of the surgical team and passes instruments and supplies to the surgeon and surgical first assistant. In the circulating role, the perioperative nurse manages the overall care of the patient and ensures patient safety by ensuring a proper environment. The circulator also transfers and positions the patient, performs urinary catheterization, positions the patient, performs counts of all instruments and supplies with the surgical technologist or scrub nurse and maintains intraoperative documentation. To be successful, perioperative nurses must develop a strong sense of physical and environmental awareness and the ability to anticipate the patient and surgical team's needs. This requires in-depth knowledge of surgical anatomy, operative procedures, surgical instrumentation and supplies, sterilization and infection control procedures and technical specialty equipment.

CBC's Perioperative Nursing program incorporates AORN's PeriOp 101 program into didactic, laboratory and clinical study. Didactic coursework is presented using a hybrid online and classroom-based learning environment, culminating in a 165-hour clinical experience designed to prepare students for a career in the operating room. Program applicants must be licensed RNs meeting specific entrance criteria.

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.

Department Overviews

PHLEB Phlebotomy

Phlebotomists work in many areas of the health care industry including hospitals, clinics and medical offices and are valuable members of the health care team. Phlebotomists must demonstrate patience, compassion, excellent communication skills and have the ability to keep up with a fast-paced environment. The phlebotomy curriculum is a two-course sequence, which prepares individuals with the knowledge, skills and abilities necessary to function as an entry-level phlebotomist. This training fulfills the Washington state Department of Health (DOH) requirements necessary to be certified as a healthcare professional in a category of Medical Assistant-Phlebotomist. Details are available online at https://doh.wa.gov/licenses-permits-and-certificates/professions-new-renew-or-update/medical-assistant/apply-license.

Phlebotomy training is a two-course sequence. In the first course, Phlebotomy 100 (PHLEB 100), students must achieve a 75 percent average or better on testing as well as pass the required lab skills competencies to continue into the second course, Phlebotomy 101 (clinical practicum). Malpractice fees are mandatory for all Health Science students and will be added to the registration fees. Applicants are required to provide the following documentation:

- A current Basic Life Support (BLS) certification card from the American Heart Association
- A current First Aid card

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 Phlebotomy program requirements. Any infraction while enrolled in the Phlebotomy program should be self-reported to the coordinator/director. 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

The Physical Education department offers a variety of classes that can expose the student to leisure activity skills and fitness activities.

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

Political science examines the institutional means through which scarce societal resources are allocated and the processes that make determinations regarding the moral fabric of community life. It combines both descriptive and normative analyses: how power is distributed and for what values or purposes it should be employed. This includes the study of the types and branches of government, means of representation, as well as issues of policy formation. Students interested in pursuing the study of Political Science can follow an academic map of suggested courses to prepare for a major in Political Science.

PROJ Project Management

The Project Management degree and certificate program options provide knowledge and skills in project management, covering all five project management process groups (initiating, planning, execution, monitoring and controlling and closing), as well as, fundamental and advanced courses in procurement management, quality management, risk management, human resources and communications management, contracts and legal management and software scheduling applications. The program incorporates a hands-on practical application approach and uses highly experienced project management practitioners to develop and teach the program curriculum.

The Project Management program offers a stair-step approach to cumulatively earn an internationally accredited one-year Project Management Certificate, a two-year Associate in Applied Science (AAS) in Project Management degree, and our internationally accredited four-year Bachelor of Applied Science (BAS) in Project Management degree. Also offered is a specialized concentration in Construction for our BAS in Project Management degree.

Both the Project Management Certificate and the BAS in Project Management are accredited by the Project Management Institute (PMI) Global Accreditation Center (GAC) for Project Management Education Programs. These international accreditations are based upon rigorous standards, which include an assessment of the program's objectives and outcomes, faculty and student evaluations, onsite and online resources, annual self-evaluations and continuous improvements in the area of project management education. GAC accreditation ensures the quality of academic degree programs and their graduates meet the standards of the rapidly growing field of project management.

Another benefit of the PMI GAC accreditation is that all project management class hours count towards the "contact hour requirement" for obtaining a PMI credential. Students who already possess a PMI credential can immediately apply the class hours towards their Professional Development Units (PDUs), which are required to maintain their PMI credential. Students can be confident that these class hours are pre-approved and will automatically be accepted by PMI toward fulfilling the contact hour or PDU requirement.

Curriculum design and scheduling allow new students to begin their project management studies during any quarter. All students begin the Project Management program by taking the Introduction to Project Management course, regardless of prior higher education experience. The Introduction to Project Management course has no prerequisite and is offered each quarter. The project management core courses are offered in sequences each quarter to permit coursework progression.

The goal of the Project Management program is to equip students with sound project management knowledge and skills with practical experience in project scenarios that resemble real-world situations. Students in this program will be able to apply project management knowledge and skills in the workplace, in volunteer organizations and in life in general. Our students range in age from their teens to their 60s. They range in experience from having no professional experience to senior-level project and program managers. Some of the industries represented include aerospace, agriculture, architecture, construction, education, energy, engineering, federal government, finance, health care, high-technology and information technology (IT).

Graduates of the Project Management program are equipped to pursue a wide variety of career roles including project manager, project coordinator, project scheduler, project controls engineer, risk manager, human resource manager, construction manager, procurement manager, contracts administrator, business negotiator and cost analyst.

Throughout the project management program, students will accomplish all 5 of the following Program Level Outcomes:

1. Apply project management terminology, principles, methods, and tools to deliver business value

2. Practice and promote The Project Management Institute's (PMI) code of ethics and professional conduct

3. Demonstrate positive leadership and tailored communications throughout the project lifecycle

4. Apply behavioral, cultural, and leadership concepts (cognitive and emotional) to project organizations, teams, and individuals

5. Evaluate and deploy informed decision-making techniques to achieve project goals

PSYC Psychology

Psychology is the scientific study of the mind and it's functions. From critically examining behavior and investigating the brain's mysteries, to creative insights on well-being and furthering the discussion on mental health, our courses in psychology can help you develop knowledge and skills that will be useful in nearly 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.

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 columbiabasin.edu/radtech 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.

SNR Senior Citizen

The Senior Citizen department offers a variety of opportunities for the lifelong learner to take courses for professional development or personal enrichment.

SSCI Social Science

The program offers courses in undergraduate social science research.

SOWK Social Work

Social work is a profession dedicated to enhancing the social functioning of all people. Generally speaking, social work promotes human growth and development through education, public health, human welfare and social justice to help people achieve their maximum potential. Social Workers are typically social activists, connecting individuals and families with resources to meet basic needs and improve the quality of life. Specifically, social work may take many forms; psychological services, child protection, government planning and policymaking, and much, much more.

Students who major in Social Work develop strong communication skills, learn to be critical thinkers, understand resource management and how to employ advocacy skills. They often work as social workers, counselors, case managers, probation officers, community outreach workers, consultants and/or mediators.

SOC Sociology

The Sociology department is dedicated to offering courses which concern the scientific study of the social group aspect of human life. Our courses range from concentrating on small groups (social psychology) to institutions (marriage and family) to large-scale issues (social problems). SOC& 101 provides an introduction to each of these areas.

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: columbiabasin.edu/learn/discover-your-path/arts-humanities-communication/world-languages/index.html. Heritage learners of Spanish are strongly encouraged to enroll in SPAN 205, SPAN 206 or SPAN 207.

SPT Sterile Processing Technician

The CBC 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 will 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 spring 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 winter 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 86%*.

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 columbiabasin.edu/surgtech or contact the Health Sciences Division at 509-544-8354 or 509-544-8300.

*Source: 2018 ARC/STSA Annual Report.

EDUT Technical Education

Technical Education courses are designed to support career and technical education instructors' knowledge and application of instructional strategies to provide the best learning opportunities for their students.

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.

Welding has become a very sophisticated and technical science that requires mental application as well as hands-on abilities. Students who complete the Associate in Applied Science degree will learn welding skills, but also basic math, English and other communication skills. CBC's welding training, plus general education requirements, prepares graduates for careers in today's construction trades and fabrications shops. For more information, call 509-542-4804.

At the end of the program, successful students will be able to:

- Obtain all position Structural Steel certification using Shielded Metallic Arc Welding (SMAW)
- Obtain all position pipe certification using Shielded Metallic Arc Welding (SMAW) and Gas Tungsten Arc Welding (GTAW) process
- Demonstrate competent cutting procedures and correct operation of equipment
- Demonstrate proper set-up and use of welding and fabricating equipment; troubleshoot and solve basic welding, fabricating and equipment problems
- Analyze and interpret prints and drawings for welding and fabricating
- Display and communicate knowledge of welding information
- Exhibit and maintain essential employability behaviors

WS Women's Studies

CBC offers students 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.

WKSP Workshop

Workshops are offered by a variety of academic departments throughout the year; many are exploratory or one time options.

Accounting

ACCT&201
Principles of Accounting I • 5.0 Credits
Formerly BA 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: grade of 2.0 or better in MATH 040 or satisfactory placement test score.**

ACCT&202
Principles of Accounting II • 5.0 Credits
Formerly BA 252
The theory and practice of accounting, including financial statements. Emphasis on partnership and corporate accounting. **Prerequisite: ACCT& 201 or instructor permission.**

ACCT&203
Principles of Accounting III • 5.0 Credits
Formerly BA 253
A continuation of ACCT& 202. Introduction of manufacturing and cost accounting. Analysis of financial statements, budgeting, and cost volume analysis. **Prerequisite: ACCT& 202.**

Administrative Office Technology

AOT 117
Office Orientation • 4.0 Credits
Formerly AOT 1170
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 • 5.0 Credits
Formerly AOT 1420
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. **Prerequisite: concurrent enrollment in AOT 117 or instructor permission.**

AOT 156
Supervised Employment • 2.0 Credits
Formerly AOT 1952
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. **Prerequisite: AOT 117 and 142, or instructor permission.**

AOT 172
Word Processing I • 4.0 Credits
This class develops employable word processing skills and implements effective application in a business environment using word processing software, currently Microsoft Word. Topics covered include all major functions of Word, including margins, tabs, tables, columns, document enhancement, graphics, styles, outline, tables of contents, and templates.

Adult Basic Education

ABE 009
LOC Ed Interviewing • 1.0–3.0 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.

ABE 010
ABE Level 1 • 1.0–15.0 Credits
Math instruction in adding and subtracting of simple whole numbers. Reading instruction in phonics, language patterns, and using context to understand written material. Writing instruction for basic survival needs and for personal communication.

ABE 020
ABE Level 2 • 1.0–15.0 Credits
Math instruction in place value, whole number operations, and problem-solving. Reading instruction in phonics, language patterns, and using context to understand written material. Writing instruction for basic survival needs and for personal communication.

ABE 030
ABE Level 3 • 1.0–15.0 Credits
Math instruction in decimals, fractions, and problem-solving. Reading instruction in word meanings, structure in word meanings, structure of paragraphs, identification of main idea, distinguishing between fact and opinion and comprehension strategies for a variety of reading materials. Writing instruction in sentence composition and paragraph construction.

ABE 040
ABE Level 4 • 1.0–15.0 Credits
Math instruction in percent, ratio, proportion, measurement, tables, and graphs. Reading instruction in organization and main idea, as well as in evaluation, comprehension, and making inferences using a variety of intermediate level reading materials. Writing instruction in writing connected paragraphs with correct punctuation, capitalization usage, spelling, and more complex sentence structure.

ABE 050
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.

ABE 060
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.

ABE 070
GED(R) Math • 1.0–5.0 Credits
Individualized instruction to prepare students to pass the official Mathematics Reasoning GED(R) tests.

ABE 090
I-Best 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.

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 • 1.0–15.0 Credits
A class used to explore new coursework.

AFS 201
Agricultural & Food Systems w/ Lab • 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. **Recommended prerequisite: AFS 101.**

Agriculture

AG 101
Crop Production I Field Crops w/ Lab • 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.

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.

AG 107
Agriculture Safety • 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.

AG 117
Agriculture Mechanics and Machinery w/ Lab • 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.

AG 140
Weed Science w/ Lab • 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.

AG 181
Irrigation Principles and Management w/ Lab • 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.

AG 199
Special Studies • 1.0–20.0 Credits
A class used to explore new coursework.

AG 201
Soils w/ Lab • 5.0 Credits
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. 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 • 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.

AG 210
Applied Agriculture Research • 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.

AG 221
Introduction to Precision Agriculture • 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.

AG 222
Advanced Precision Agriculture w/ Lab • 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. **Prerequisite: grade of 2.0 or better in AG 221.**

AG 232
Crop Production II Fruit & Veg Production w/ Lab • 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.

AG 250
GPS and GIS Applications w/ Lab • 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. **Prerequisite: grade of 2.0 or better in AG 221.**

AG 252
Insects of Economic Importance w/ Lab • 5.0 Credits
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. **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 • 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.

AG 297
Agriculture Internship • 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. **Prerequisite: instructor permission required.**

AG 299
Special Studies • 1.0–20.0 Credits
A class used to explore new coursework.

AG 310
Ag Operations and Supply Chain Management • 5.0 Credits
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 310 and HCAD 310. Students completing AG 310 may not receive graduation credit for AMGT 310 or HCAD 310. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AG 340
Ag Information Technology and Applications • 5.0 Credits
This course focuses on the information resource of management. The course promotes proficiency with technology and its essential business applications. Students build proficiency in this course through planning for, and creation of business technology with coding of an algorithm, establishing and managing customer contact by leveraging publication templates and by creating an online presence with accompanying use of social media and search engine optimization. This class is cross-listed with AMGT 340, HCAD 315, and NRS 315. Students completing AG 340 may not receive graduation credit for AMGT 340, HCAD 315 or NRS 315. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AG 430
Fundamentals of Agriculture Financial Management • 5.0 Credits
This course covers basic financial tools and principles including short-term and long-term financial and investment decisions. 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 business related to their career choice. This course is cross-listed with AMGT 430. Students completing AG 430 may not receive graduation credit for AMGT 430. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: AMGT 400 with a minimum grade of 2.0 and meets the criteria for 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
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. **Prerequisite: meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, and instructor approval, and AMGT 400.**

AG 480
Agriculture Management Capstone • 5.0 Credits
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 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. **Prerequisite: AMGT 300, AG or AMGT or HCAD 310, AMGT 320, AMGT or HCAD 330, and AMGT 400. Additionally, you must have taken or be concurrently taking AG or AMGT 340 or HCAD or NRS 315, AMGT 360, and AG or AMGT 430. All prerequisites must be passed with a 2.0 or better.**

Anthropology

ANTH&100
Survey of Anthropology [S/B] • 5.0 Credits
Formerly ANT 101
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 ANTH 1972
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.

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
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
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
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). **Prerequisite: have taken or concurrently taking ANTH& 205.**

ANTH&234
Religion & Culture [S/B] • 5.0 Credits
Formerly ANT 128
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
Management & Organization Theory • 5.0 Credits
This is a survey course focused on managerial skills development. The course includes a discussion of modern management's functions, resources, and demands for those in supervisory or leadership positions with different organizations. Students are tasked with examining their own perspectives and developing skills of empathy, active listening, and humility to improve managerial performance. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN**

program, completion of a two-year degree or equivalent, or instructor approval.

AMGT 310
Operations Management • 5.0 Credits
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 310 and HCAD 310. Students completing AMGT 310 may not receive graduation credit for AG 310 or HCAD 310. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for 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: meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, and instructor approval.**

AMGT 320
Leadership & Organization Behavior • 5.0 Credits
This course examines leadership theories and organizational behaviors and structures. The course explores the concepts from the perspective of 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 organizational behavior. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 330
Legal Issues for Business & Managers • 5.0 Credits
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 business start-up and intellectual property. This class is cross-listed with HCAD 330. Students completing AMGT 330 may not receive graduation credit for HCAD 330. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 340
Information Technology and Applications • 5.0 Credits
This course focuses on the information resource of management. The course promotes proficiency with technology and its essential business applications. Students build proficiency in this course through planning for, and creation of business technology with coding of an algorithm, establishing and managing customer contact by leveraging publication templates and by creating an online presence with accompanying use of social media and search engine optimization. This class is cross-listed with AG 340, HCAD 315, and NRS 315. Students completing AMGT 340 may not receive graduation credit for AG 340, HCAD 315, or NRS 315. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 350
Marketing for Managers • 5.0 Credits
This course develops marketing skills and knowledge necessary for modern managers. Customer service relationship approaches, green marketing, and using managerial resources to apply sales techniques to B Corporations are emphasized concepts. Students complete a marketing plan template on a company or organization in the industry of their interest as a final project for the course. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 360
Business Planning and Strategy • 5.0 Credits
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: Meets the criteria for 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: meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, and instructor approval.**

AMGT 400
Financial and Managerial Accounting • 5.0 Credits
This course covers the theory, language, and application of accounting. Students learn financial data accumulation and reporting with an emphasis on using this information to perform the managerial functions of planning, organizing, leading, and controlling. During the course, students prepare comprehensive evaluations of the current and potential future performance of multiple organizations. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: ACCT& 201 with a 2.0 or better and meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 417
Contemporary Issues in Business & Management • 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 contemporary issues in management/business or topics of regional interest within the management/business arena. These seminars typically last four weeks and students may elect to register for individual seminars within the terms offered for variable credit. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 420
Human Resource Management • 5.0 Credits
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 420. Students completing AMGT 420 may not receive graduation credit for HCAD 420. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the critieria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

AMGT 430
Fundamentals of Financial Management • 5.0 Credits
This course covers basic financial tools and principles including short-term and long-term financial and investment decisions. 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 business related to their career choice. This course is cross-listed with AG 430. Students completing AMGT 430 may not receive graduation credit for AG 430. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: AMGT 400 with a minimum grade of 2.0 or ACCT& 203 with a minimum grade of 2.0 and meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equipvalent, or instructor approval.**

AMGT 470
BAS Internship • 1.0–5.0 Credits
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 AMT 470 may not receive graduation credit for AG 470. **Prerequisite: meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, and instructor approval.**

AMGT 480
Applied Management Capstone • 5.0 Credits
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. 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: AMGT 300, AG or AMGT or HCAD 310, AMGT 320, AMGT or HCAD 330, and AMGT 400. Additonally, you must have taken or be concurrently taking AG or AMGT 340 or HCAD or NRS 315, AMGT 360, and AG or AMGT 430. All prerequisites must be passed 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: meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, and instructor approval.**

Art, Visual

ART& 100
Art Appreciation [H] • 5.0 Credits
Formerly ART 110
A general survey of fine and applied arts with brief media encounters in various areas of art. The class emphasis is on building a general appreciation of the techniques, styles, themes in art, and the history of art.

ART 111
2D Design • 5.0 Credits
Introduction to the formal elements and principles of design common to all two-dimensional media. Students examine the formal elements of line, shape, form, space, pattern, texture, and color and applies the principles of unity and variety, balance, focus, repetition, rhythm, movement, and proportion. Students are introduced to spatial and ordering strategies through a sequence of design and color theory problems which emphasize creative problem-solving using a variety of media and techniques. Recommended for all art, design, photography, and architecture students, and for anyone with a general interest in art.

ART 112
3D Design • 5.0 Credits
Formerly ART 1121
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.

ART 113
Drawing I • 3.0 Credits
Formerly ART 1131
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.

ART 114
Drawing II • 3.0 Credits
Formerly ART 1141
A continuation of ART 113 with emphasis on individual direction, composition, color, expanded technique, and media experiences. **Prerequisite: ART 113 or instructor permission.**

ART 115
Life Drawing • 3.0 Credits
Formerly ART 1151
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. **Recommended prerequisite: ART 113 or instructor permission.**

ART 116
Art History Ancient World [H] • 5.0 Credits
A comparative study of architecture, sculpture, and pictorial arts from the ancient cultures of the world. A chronological survey of prehistoric, Mesopotamian, Egyptian, Greek, Roman, Byzantine, and Islamic arts.

ART 117
Art History Medieval-Baroque [H] • 5.0 Credits
A study of architecture, painting, and sculpture from the Middle Ages through the Gothic, Renaissance, and Baroque. Comparative studies of cross cultural traditions.

ART 118
Art History Modern Times [H] • 5.0 Credits
A chronological study of architecture, sculpture, painting, printmaking, photography, and the design arts from Romanticism to the present.

ART 198
Special Studies • 1.0–15.0 Credits
Formerly ART 1991
An experimental class to be used to explore new approaches and applications to studio art.

ART 199
Special Studies • 1.0–15.0 Credits
An experimental class to be used to explore new approaches and applications to art theory.

ART 201
Photography I • 1.0–3.0 Credits
Formerly ART 2011
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. **Recommended prerequisite: ART 111.**

ART 202
Photography II • 1.0–3.0 Credits
Formerly ART 2021
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. **Recommended prerequisite: ART 111 and 201.**

ART 209
Digital Art and Design • 5.0 Credits
An introduction to the use of digital media in art. This course acquaints students with the fundamentals of using the Creative Suite program that includes Adobe Photoshop, Illustrator, and InDesign. These computer programs are used for creating graphic design layouts, working with digital imagery, or creating your own unique digitally-based works of art. **Recommended prerequisite: ART 111.**

ART 211
Graphic Design I • 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. **Recommended prerequisite: ART 111, 113, and 209.**

ART 212
Graphic Design II • 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. **Prerequisite: ART 211.**

ART 215
Painting I • 1.0–3.0 Credits
Formerly ART 2151
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.

ART 216
Painting II • 1.0–3.0 Credits
Formerly ART 2161
Continuation of ART 215 with greater emphasis on individual development of subject matter, technique, and personal expression. Oil, acrylic, or mixed media. **Prerequisite: ART 215.**

ART 220
Sculpture I • 1.0–3.0 Credits
Formerly ART 2201
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. **Recommended prerequisite: ART 111 and 112.**

ART 221
Sculpture II • 1.0–3.0 Credits
Formerly ART 2211
A continuation of ART 220 with emphasis on the techniques of casting, construction, and carving. **Prerequisite: ART 220.**

ART 222
Ceramics I • 1.0–3.0 Credits
Formerly ART 2221

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.

ART 223
Ceramics II • 1.0–3.0 Credits
Formerly ART 2231
A continuation of ART 222 with special emphasis on wheel technique, glaze formulation, and design of clay forms. **Prerequisite: ART 222.**

ART 224
Ceramic Sculpture • 1.0–3.0 Credits
Formerly ART 2241
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.

ART 225
Metals I • 1.0–3.0 Credits
Formerly ART 2251
An introduction to the broad range of materials, techniques, and formats characteristic of metal art and jewelry. **Recommended prerequisite: ART 111.**

ART 226
Metals II • 1.0–3.0 Credits
Formerly ART 2261
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. **Prerequisite: ART 225.**

ART 230
Professional Practices • 1.0–2.0 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 • 1.0–3.0 Credits
Formerly ART 2411
A studio course that applies the elements of design and drawing to a variety of illustration formats. Focus is on technical skills, application of a wide range of media, and illustrative concepts. **Recommended prerequisite: ART 111 and 113.**

ART 242
Illustration II • 1.0–3.0 Credits
Formerly ART 2421
A continuation of Illustration I with emphasis on individual development of subject, technique, and concept. A variety of illustration styles and applications are explored further. **Prerequisite: ART 241.**

ART 243
Illustration III • 1.0–3.0 Credits
Formerly ART 2431
A continuation of ART 242 with emphasis on the use of mixed media, color, and graphic techniques applied to illustration. **Prerequisite: ART 241 and 242.**

ART 250
Studio Problems • 1.0–3.0 Credits
Formerly ART 2501
Individual, contracted, advanced study in visual arts theory and practice. **Prerequisite: completion of all available studio art within desired area of study and instructor permission.**

ART 251
Studio Problems - Design • 1.0–3.0 Credits
Formerly ART 2511
Individual, contracted, advanced study in design. Studio and seminar.

ART 252
Studio Problems - Graphic • 1.0–3.0 Credits
Formerly ART 2521
Individual, contracted, advanced study in computer graphics. Studio and seminar. **Recommended prerequisite: ART 209, 211, and 212.**

ART 253
Studio Problems - Drawing • 1.0–3.0 Credits
Formerly ART 2531
Individual, contracted, advanced study in drawing. Studio and seminar.

ART 254
Studio Problems - Painting • 1.0–3.0 Credits
Formerly ART 2541
Individual, contracted, advanced study in painting. Studio and seminar.

ART 255
Studio Problems - Sculpture • 1.0–3.0 Credits
Formerly ART 2551
Individual, contracted, advanced study in sculpture. Studio and seminar.

ART 256
Studio Problems - Metals • 1.0–3.0 Credits
Formerly ART 2561
Individual, contracted, advanced study in metal arts. Studio and seminar.

ART 257
Studio Problems - Ceramics • 1.0–3.0 Credits
Formerly ART 2571
Individual, contracted, advanced study in ceramic arts. Studio and seminar.

ART 259
Studio Problems - Photography • 1.0–3.0 Credits
Formerly ART 2591
Individual, contracted, advanced study in photography, studio and seminar.

ART 298
Special Studies Lab • 1.0–15.0 Credits
Formerly ART 2991
An advanced experimental class to be used to explore new approaches and applications to studio art.

ART 299
Special Studies • 1.0–15.0 Credits
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
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. **Prerequisite: grade of 2.0 or better in MATH 050, 060, 062, or 096.**

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. **Prerequisite: MATH 050, 060, 062, 096 or instructor permission. ASTR& 101 recommended.**

ASTR 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

ASTR 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Automotive Technology

AMT 100
Basic Automotive Maintenance • 2.0 Credits
An introduction to general automotive systems and service procedures. This course is designed to familiarize students with the automotive industry learning how to properly service and maintain today's vehicles, knowing how to understand what a service repair facility is saying to them when they are having a vehicle repaired, and the requirements to continue on becoming an automotive repair technician if desired. Class time consists of lecture on theory of preventative maintenance procedures and systems, basic operation of automotive tools, shop safety, computerized online information systems, written assignments, and basic automotive repair techniques. Lab time consists of students applying concepts learned with hands-on experience while working on student owned vehicles and school mockups.

AMT 104
Diesel Engine Theory • 2.0 Credits
This course provides basic knowledge and theory of operation of automotive diesel engines including ignition and fuel systems. **Prerequisite: AMT 107, 109, 113, and 114 or instructor permission.**

AMT 105
Basic Automotive Maintenance Lab • 1.0–3.0 Credits
Formerly AMT 1001
Lab to be taken concurrently with AMT 100.

AMT 107
Parts, Systems, and Components • 4.0 Credits
This course prepares students to apply technical knowledge and skills to perform tasks and services that facilitate the movement and sale of parts and materials. Students will learn the identification of individual parts in vehicle systems and demonstrate an understanding of parts' relationships to various systems. **Prerequisite: Acceptance into the Automotive Technology Program, and a grade of 0.7 or better in MATH 100 or a higher math class, or appropriate placement, or concurrent enrollment.**

AMT 108
Parts Logistics Practicum • 1.0 Credit
This class provides field experiences that allow a student to observe and document how working professionals perform their job duties. Students will also participate in performing tasks to a limited extent allowed by on-site staff in an environment that will build on the students' area of career interests and prepare them to be productive employees. **Prerequisite: AMT 107 and INT 130, or instructor permission .**

AMT 109
Tools and Hardware • 3.0 Credits
This is an entry-level course that provides basic tool and hardware safety, use, and storage. It will cover the tools, hardware, fasteners, and basic equipment commonly used in maintenance shop environments. **Prerequisite: Acceptance into the Automotive Technology program, and a grade of 0.7 or better in MATH 100 or a higher math class, or appropriate placement, or concurrent enrollment.**

AMT 112
Electrical Systems • 2.0 Credits
A class covering electrical basics, electronics, test equipment, wiring circuitry, and basic diagnosis of starting and charging systems. Students in the lab diagnose and repair light circuits, wiring systems, and basic starting and charging systems. This course is designed for automotive students.

AMT 113
Maintenance Publications and Records • 2.0 Credits
This course provides students with knowledge to utilize maintenance publications, service bulletins, and maintenance directives for service and maintenance of vehicles. It also includes the correct procedures and information for completing work orders and creating maintenance log entries. **Prerequisite: Acceptance into the Automotive Technology program, and a grade of 0.7 or better in MATH 100 or a higher math class, or appropriate placement, or concurrent enrollment.**

AMT 114
Preventive Maintenance • 5.0 Credits
This course provides students with basic knowledge and understanding of automotive procedures for maintaining vehicles by following recommendations for preventive care. This course provides the background science and physics for understanding the unique needs and attributes of automotive materials and systems including lubrication, hydraulic, pneumatic, metallurgical, gaseous, power, and fuels. **Prerequisite: Acceptance into the Automotive Technology program, and a grade of 0.7 or better in MATH 100 or a higher math class, or appropriate placement, or concurrent enrollment.**

AMT 115
Basic Damage Repair • 3.0 Credits
This course is an introduction to basic metal repair and metal straightening techniques. It includes shop safety and the proper use of power and hand tools.

AMT 116
Corrosion Protection • 3.0 Credits
This course provides an introduction to identifying damage and non-damage corrosion. Various methods of corrosion protection are presented

as well as metal treatments and primers. **Prerequisite: AMT 107 or instructor permission.**

AMT 117
Introduction to Paint Application • 3.0 Credits
This course provides basic knowledge and practice in correcting defects in vehicle finishes. Students will learn to distinguish among the various types of paint equipment, use various paint codes and specifications, identify various paint systems, and explore paint defects. **Prerequisite: AMT 107 or instructor permission.**

AMT 118
Glass and Plastic Adhesive Repair • 3.0 Credits
This course provides an introduction to the basics of glass and plastic adhesive repair. Topics include glass repair, fiberglass and composite repair, and applying body plastic filler.

AMT 119
Suspension and Steering Systems Theory • 2.0 Credits
This class is designed to give students an understanding of the theory of automotive steering and suspension systems. The emphasis will be on the mechanical portion of those systems. **Prerequisite: Grade of 2.0 or better in AMT 120 or concurrent enrollment or instructor permission.**

AMT 120
Basic Electrical Systems • 4.0 Credits
This course provides students with a basic understanding of the theory, diagnosis, and service of automotive electrical systems. Subjects covered will include basic electrical principles and how malfunctions affect the proper functioning of vehicles. **Prerequisite: Completion of AMT 107, 109, 113, and 114, all with a minimum grade of 2.0, or instructor permission, and MATH 100 or a higher math class with a minimum grade of 0.7, or appropriate placement.**

AMT 121
Suspension and Steering Systems Servicing • 5.0 Credits
This lab is designed to familiarize students with the operation, diagnosis, repair, and service of automotive steering and suspension systems, with the emphasis on the mechanical portion of these systems. **Prerequisite: Grade of 2.0 or better in AMT 120 or concurrent enrollment or instructor permission.**

AMT 123
Brake Systems I • 5.0 Credits
This class provides a basic understanding of the theory, diagnosis, and service of automotive brake systems. Emphasis will be placed on the mechanical portion of the brakes systems and the principles behind their operation. **Prerequisite: Grade of 2.0 or better in AMT 120 or concurrent enrollment or instructor permission.**

AMT 129
Engine Theory • 3.0 Credits
This course introduces students to the theory of internal combustion engines. Students will explore the fundamentals of fuel system theory, ignition theory, and identify engine mechanical integrity and operation. **Prerequisite: Grade of 2.0 or better in AMT 120 or concurrent enrollment or instructor permission.**

AMT 130
Engine Servicing • 4.0 Credits
This class provides students a basic understanding of the diagnosis, service, and operation of internal combustion engines with an emphasis on servicing, failure analysis, and correct parts replacement. **Prerequisite: Grade of 2.0 or better in AMT 120 or concurrent enrollment or instructor permission.**

AMT 133
Engine Repair • 4.0 Credits
Students will learn to inspect and repair engine lubrication systems, cooling systems, cylinder heads, and valve trains, as well as how to perform advanced level engine diagnosis. Emphasis will be placed on failure analysis and demonstrating proper parts replacement. **Prerequisite: Grade of 2.0 or better in AMT 120 or concurrent enrollment or instructor permission.**

AMT 134
Engine Rebuild • 3.0 Credits
Students will learn how to remove and install an automotive engine; inspect and troubleshoot internal combustion engines; demonstrate the ability to reassemble engine components into a working condition, including engine conformity inspections; and perform advanced level engine diagnosis. **Prerequisite: Grade of 2.0 or better in AMT 120 or concurrent enrollment or instructor permission.**

AMT 135
Vehicle Maintenance & Lab • 7.0 Credits
This combination class/lab is designed to give students basic knowledge and understanding of common automotive maintenance procedures, minor parts replacement, the importance of maintenance, and to work in a manner which exhibits pride, cleanliness, work ethic, and professionalism. Minimum grade of 2.0 is required to advance in program. **Prerequisite: Completion of AMT 121 with a 0.7 or higher.**

AMT 140
Automotive Internship • 7.0 Credits
This summer internship program is designed to prepare students for actual shop employment. Students spend a minimum of eight weeks working in an automotive repair facility gaining experience with genuine automotive shop working conditions. This "hands-on" practice enables students to be more prepared for their second year advanced studies and allows them to have verifiable "employed" experience when searching for employment at completion of year two. The internship work site must be instructor approved. The instructor performs on-site visits after students are employed to gather data on the performance of the students. Students work in a manner which exhibits pride, cleanliness, work ethic, and professionalism. Minimum grade of 2.0 is required to advance in program. **Prerequisite: Instruction permission required to enroll.**

AMT 193
Independent Study • 1.0–15.0 Credits
A class used to explore new coursework or for a specific topic of special interest.

AMT 199
Special Studies • 1.0–10.0 Credits
A class used to explore new coursework.

AMT 210
Automotive Electronics • 4.0 Credits
This course covers the concepts of electrical fundamentals and electronics including series, parallel, and compound circuits; motors, relays, switches, inverters, converters; power distribution, wiring and routing; and logic diagrams and circuits. **Prerequisite: Grade of 2.0 or better in AMT 120 or concurrent enrollment or instructor permission.**

AMT 220
Advanced Electrical & Electronics & Lab • 7.0 Credits
This combination class/lab is designed to give students a highly developed understanding of the theory, diagnosis, and service of the advanced automotive electrical and electronic operating systems. Students work in a manner which exhibits pride, cleanliness, work ethic, and professionalism. Minimum grade of 2.0 is required to advance in program. **Prerequisite: Grade of 2.0 or better in AMT 120 or concurrent enrollment or instructor permission.**

AMT 223
Brakes Systems II & Lab • 5.0 Credits
This combination class/lab is designed to give students a highly developed understanding of the theory, diagnosis, and service of the advanced brake systems with a heavy emphasis on the electronic side of those systems. Students work in a manner which exhibits pride, cleanliness, work ethic, and professionalism. Minimum grade of 2.0 is required to advance in program. **Prerequisite: Grade of 2.0 or better in AMT 220 or instructor permission.**

AMT 230
Automatic Transmission • 5.0 Credits
Students will gain a basic understanding of the theory, diagnosis, rebuilding, and servicing of automatic automotive transmissions, including an understanding of their internal hydraulic, electrical, and mechanical operations. **Prerequisite: Grade of 2.0 or better in AMT 220 or instructor permission.**

AMT 233
Manual Transmissions & Lab • 7.0 Credits
This combination class/lab is designed to give students a basic understanding of the theory, diagnosis, and service of automotive manual transmissions. Students work with a manual transmission and gain knowledge of internal gear transfer paths. In addition, study of clutches, drive axles, and differentials round out this course of study. Students work in a manner which exhibits pride, cleanliness, work ethic, and professionalism. Minimum grade of 2.0 is required to advance in program. **Prerequisite: Grade of 2.0 or better in AMT 220 or instructor permission.**

AMT 240
Drivability Diagnostics & Lab • 7.0 Credits
This combination class/lab is designed to give students a highly developed understanding of the theory, diagnosis, and service of the drivability automotive systems. Emphasis is on power train computer systems, sensors and outputs, and the proper diagnostic strategies to locate potential problems in these systems. Minimum grade of 2.0 is required to advance in program. **Prerequisite: Grade of 2.0 or better in AMT 220 or instructor permission.**

AMT 243
Heating, Ventilation & Air Conditioning Systems • 7.0 Credits
This combination class/lab is designed to give students 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. Minimum grade of 2.0 is required to advance in program. **Prerequisite: Grade of 2.0 or better in AMT 220 or instructor permission.**

AMT 250
Automotive Technology Systems Review • 3.0 Credits
This combination class/lab is designed to give students a review of basic knowledge and understanding of vehicle systems including: electrical, engines, brakes, heating and air conditioning, automatic transmissions, and engine performance.

AMT 251
Hybrid Operations and Safety • 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.

AMT 252
High Voltage Basic Operations • 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.

AMT 253
Basic Maintenance and Servicing of Hybrids • 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.

AMT 254
High Voltage Diagnostics • 3.0 Credits
This combination class/lab is designed to give students theories and strategies for diagnosing high voltage and hybrid specific systems.

AMT 255
Component Replacement • 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.

Biology

BIOL&100
Survey of Biology w/ Lab [M/S] • 5.0 Credits
Formerly BIO 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.

BIOL 140
Fundamentals of Botany w/ Lab [M/S] • 5.0 Credits
Formerly BIO 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.

BIOL 148
Plant Identification w/ Lab [M/S] • 5.0 Credits
Formerly BIO 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.

BIOL&160
General Biology w/ Lab [M/S] • 5.0 Credits
Formerly BIO 105
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. **Strongly recommended: high school chemistry, or CHEM& 121 or higher, or concurrent enrollment. This course does not satisfy the prerequisite for BIOL& 212 or 213.**

BIOL&175
Human Biology w/ Lab [M/S] • 5.0 Credits
Formerly BIO 110
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.

BIOL 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

BIOL 201
Soils w/ Lab [M/S] • 5.0 Credits
Formerly BIO 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. 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
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. **Prerequisite: a grade of 2.0 or better in CHEM& 121 or higher.**

BIOL&212
Majors Plant w/ Lab [M/S] • 5.0 Credits
Formerly BIO 112
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. **Prerequisite: a grade of 2.0 or better in BIOL& 211 and CHEM& 140 or higher.**

BIOL&213
Majors Animal w/ Lab [M/S] • 5.0 Credits
Formerly BIO 113
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. **Prerequisite: a grade of 2.0 or better in BIOL&212.**

BIOL&241
Human A&P 1 w/ Lab [M/S] • 6.0 Credits
Formerly BIO 221
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. **Prerequisite: a grade of 2.0 or better in BIOL& 160 or 211. Recommended: CHEM& 121.**

BIOL&242
Human A&P 2 w/ Lab [M/S] • 6.0 Credits
Formerly BIO 222
Continuation of BIOL& 241: endocrine, digestive, respiratory, circulatory, lymphatic, urinary, and reproductive systems. **Prerequisite: a grade of 2.0 or better in BIOL& 241.**

BIOL 252
Insects of Economic Importance w/ Lab [M/S] • 5.0 Credits
Formerly BIO 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. **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
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.

BIOL&260
Microbiology w/ Lab [M/S] • 6.0 Credits
Formerly BIO 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. **Prerequisite: a grade of 2.0 or better in BIOL& 160 or BIOL& 211. Strongly recommended: CHEM& 121, BIOL& 241 and BIOL& 242 (for nursing majors) or BIOL& 212 and BIOL& 213 (for biology majors).**

BIOL 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Blueprint Reading

BPR 105
Blueprint Reading • 3.0 Credits
The Blueprint Reading 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. This is the short course of need to know information for blueprint reading in machine trades.

BPR 106
Blueprint Reading I (WT) • 3.0 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: DRW 106.**

BPR 110
Basic Blueprints and Drawings • 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) • 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: MT 102.**

BPR 206
Blueprint Reading II (WT) • 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: BPR 106.**

Business

BUS& 101
Introduction to Business [S/B] • 5.0 Credits
Formerly BA 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 • 5.0 Credits
Formerly BA 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 105
Business & Payroll Tax Accounting • 5.0 Credits
Formerly BA 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: ACCT&201 or instructor permission.**

BUS 107
Federal Income Taxes • 5.0 Credits
Formerly BA 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. Offered fall quarter. **Recommended prerequisite: ACCT& 201.**

BUS 111
Computerized Accounting • 5.0 Credits
Formerly BA 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: ACCT& 201 and ACCT& 202 or concurrent enrollment in ACCT& 202.**

BUS 120
Personal Finance • 5.0 Credits
Formerly BA 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 134
Public Relations • 5.0 Credits
Formerly BA 134
A critical study of the theory, principles, and practices of organizational public relations in the complex social, technical, and political climate of the era. The class is writing and speaking intensive, culminating in student oral presentations, and a portfolio of media examples.

BUS 150
Advertising Principles • 5.0 Credits
Formerly BA 150
Study of when and how to use the major advertising mediums, with emphasis on local advertising. The course includes media buying, copywriting, layouts, production, market research, and sales promotion.

BUS 165
Investments • 5.0 Credits
Formerly BA 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 • 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 • 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 • 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 195
Supervised Employment • 1.0–5.0 Credits
Formerly BUS 1952
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. **Prerequisite: instructor permission.**

BUS 196
Employment Seminar • 1.0–5.0 Credits
Designed to provide students with insight into the many aspects of the world of work through discussions of their personal work environments, encompassing actual on-the-job training and observations. May be repeated to a maximum of six credits. **Prerequisite: concurrent enrollment in BUS 195.**

BUS 199
Special Studies • 1.0–5.0 Credits
Formerly BA 199
A class used to explore new coursework.

BUS& 201
Business Law • 5.0 Credits
Formerly BA 254
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 • 5.0 Credits
This course explores how and why individuals make the financial choices and decisions they do. Individual attributes and relationships from a financial perspective are explored. Emergency funds, goals, and financial statements are covered, as well as basic retirement information. Money problems and solutions illustrate real life problems. Careers, mindfulness, and life balance topics round out a holistic approach to finances. A term paper is required to reflect upon individual learning in managing personal finances.

BUS 220
Personal Finance • 5.0 Credits
Formerly BA 220
This advanced personal finance course is for the mature individual who is seeking in-depth information and discussion on retirement, tax, and estate planning. The specifics of retirement trends and strategies, life goals, IRAs, pension plans, distributions, insurance, and wills are researched culminating in a retirement and estate plan. **Prerequisite: BUS 120 or instructor permission.**

BUS 250
Management Information Systems • 5.0 Credits
Formerly BA 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. This course focuses on organizational information systems, including managerial support systems and acquisition, and application of information systems. Topical coverage consists of a web-based, global environment, and how to manage it through a competitive advantage and strategic information system. Ethics and privacy, network communications, E-commerce, mobile commerce, and contemporary topics are explored. The software deliverables include a PowerPoint presentation and a Word document from the student's fictional or real business, followed by an Excel spreadsheet and Web 2.0 Google Docs. As a result of taking this course, students will obtain valuable information technology knowledge and skills required for success in business.

BUS 255
Legal Institutions & Processes in Am. Business • 5.0 Credits
Formerly BA 255, POLS&200
An examination of U.S. governmental roles and processes that affect business and our socio-economic systems. Provides an in-depth look at the U.S. legal structure and legal reasoning of substantive law and procedural and regulatory processes, focusing on legal analysis in facilitating conflict resolution.

BUS 257
Governmental Accounting • 5.0 Credits
Formerly BA 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: ACCT& 201.**

BUS 261
Human Resources Management • 1.0–5.0 Credits
Formerly BA 261
A critical inquiry into the theory, principles, and practices of human resource management in the global work place of the 21st century. Emphasis is on the shift from large-scale business to the practices needed to sustain and nourish world-class standards and practices in small and start-up enterprises.

BUS 262
Management Principles • 5.0 Credits
Formerly BA 262
A study of the essentials of management in merchandising, manufacturing, agriculture, agrichemical business, and service businesses.

BUS 263
Principles of Finance • 5.0 Credits
Formerly BA 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 264
Fraud & Accounting Information Systems • 5.0 Credits
Formerly BA 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: ACCT& 201, ACCT& 202, or ACCT& 203.**

BUS 265
Marketing Principles • 5.0 Credits
Formerly BA 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 • 1.0–5.0 Credits
Formerly BA 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 268
Marketing Special Projects II • 1.0–5.0 Credits
Formerly BA 268
A continuing practical and student-centered marketing project course utilizing material provided by proposing clients. Included in this project is the development of a marketing promotional plan for-profit and not-for-profit companies. This special project is designed to help students use marketing skills related to primary and secondary data collecting and added researched data, business startup planning, making a business more profitable, and decision-making as they relate to the final promotion of a product or business. As in course BUS 267, more advanced projects are assigned and above skills are expanded.

BUS 269
Marketing Special Projects III • 1.0–5.0 Credits
Formerly BA 269
A continuing practical and student-centered marketing project course utilizing material provided by proposing clients, student researched data. Included in this project is the development of a marketing promotional plan for-profit and not-for-profit companies. This special project is designed to help students use marketing skills related to effective business promotion and/or product development. Selling skills, creative planning, and implementation training will be utilized for the client's benefit. As in course BUS 268, more technical and advanced projects and research are assigned and the above skills are expanded to client specifications.

BUS 271
Human Relations Business • 5.0 Credits
Formerly BA 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 • 3.0 Credits
Formerly BA 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 279
Intermediate Entrepreneurship • 5.0 Credits
Students will learn the principles and skills needed for implementation of a business plan to own and operate a successful venture. The principles and skills of the entrepreneur are utilized in the decision making process. Topics covered in this course include: The appropriate business structure and organization, developing plans and strategies for the entrepreneurial venture, financing strategies, exploration of growth opportunities, and successful managing of scarce resources. **Prerequisite: BUS 179.**

BUS 280
Innovation & Design Thinking 1 • 5.0 Credits
This course combines theory and individual and group assignments to introduce students to the main concepts of innovation creativity and design thinking. Students learn various tools to promote creativity within themselves and others, processes to increase innovation, how to contribute to a creative team, how to manage creativity, and how to establish a culture of creativity within an organization. Students will develop an understanding of and appreciation for the creative/innovative processes and will be prepared to contribute in a unique and productive way to today's entrepreneurial and organizational demands.

BUS 295
Supervised Employment • 1.0–5.0 Credits
Formerly BUS 2952
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. **Prerequisite: instructor permission.**

BUS 296
Employment Seminar • 1.0–2.0 Credits
Designed to provide students with insight into the many aspects of the world of work through discussions of their personal work environment, encompassing actual on-the-job training, and observations. May be repeated to a maximum of six credits. **Prerequisite: concurrent enrollment in BUS 295.**

BUS 299
Special Studies • 1.0–5.0 Credits
Formerly BA 299
A class used to explore new coursework.

Chemistry

CHEM&110
Chemical Concepts w/ Lab [M/S] • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in MATH 050, 060, 062, 096 or higher.**

CHEM&121
Intro to Chemistry w/ Lab [M/S] • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in MATH 050, 060, 062, 094, 097 or higher.**

CHEM&122
Intro to Organic Chemistry w/ Lab [M/S] • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in CHEM& 121, 140, or 161.**

CHEM&123
Intro to Biochemistry w/ Lab [M/S] • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in CHEM& 122 or 242.**

CHEM&131
Intro to Organic/Biochemistry w/ Lab [M/S] • 5.0 Credits
Formerly CHM 135
The course provides the fundamental chemistry of organic compounds in molecules and reactions of living systems. Topics covered include: hydrocarbons, alcohols and thiols, carbonyl compounds, carboxylic acids, esters, amines, amides, carbohydrates, proteins, lipids, and nucleic acids. Universal metabolic pathways that occur in both simple and complex organisms are covered, including: glycolysis, gluconeogenesis, citric acid cycle, electron transport chain, oxidative phosphorylation, fatty acid biosynthesis and degradation, amino acid transamination, and all aspects of the storage and expression of genetic information. This course is designed for students that need a laboratory science class that has a depth of both organic chemistry and biochemistry. **Prerequisite: grade of 2.0 or better in CHEM& 140 or CHEM& 121.**

CHEM&140
General Chemistry Prep w/ Lab [M/S] • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in MATH 070, 072, 095 or 098.**

CHEM&161
General Chemistry I w/ Lab [M/S] • 6.0 Credits
Formerly 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. **Prerequisite: CHEM& 140 with a grade of 2.0 or better or a satisfactory score on the CHEM& 161 Fitness Exam.**

CHEM&162
General Chemistry II w/ Lab [M/S] • 6.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in CHEM& 161.**

CHEM&163
General Chemistry III w/ Lab [M/S] • 6.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in CHEM& 162.**

CHEM 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

CHEM&241
Organic Chemistry I [M/S] • 4.0 Credits
Formerly CHM 221
Stresses nomenclature, structure, stereochemistry, and introduces conceptual material needed to understand reaction mechanisms and synthesis. **Prerequisite: grade of 2.0 or higher in CHEM& 163 and concurrent enrollment in CHEM& 251.**

CHEM&242
Organic Chemistry II [M/S] • 4.0 Credits
Formerly CHM 222
Deals with the major classes of organic compounds with respect to preparations, mechanisms of reactions, syntheses and identification. **Prerequisite: 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 CHM 223
Advanced reaction mechanisms and syntheses. Polymers, macromolecular and biochemical applications, spectroscopy, chromatography, and identification of organic compounds. **Prerequisite: grade of 2.0 or better in CHEM& 242/252, and concurrent enrollment in CHEM& 253.**

CHEM&251
Organic Chemistry I Lab [M/S] • 2.0 Credits
Formerly CHM 2211
Lab to be taken concurrently with CHEM& 241.

CHEM&252
Organic Chemistry II Lab [M/S] • 2.0 Credits
Formerly CHM 2221
Lab to be taken concurrently with CHEM& 242.

CHEM&253
Organic Chemistry III Lab [M/S] • 2.0 Credits
Formerly CHM 2231
Lab to be taken concurrently with CHEM& 243.

CHEM 254
Quantitative Analysis [M/S] • 2.0 Credits
Formerly 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: CHEM& 163.**

CHEM 255
Instrumental Analysis [M/S] • 2.0 Credits
Formerly 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: grade of 2.0 or better in CHEM 254/264.**

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. **Prerequisite: 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
Formerly CHM 2511
Lab to be taken concurrently with CHEM 254.

CHEM 265
Instrumental Analysis Lab [M/S] • 3.0 Credits
Formerly CHM 2521
Lab to be taken concurrently with CHEM 255.

CHEM 281
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Formerly CHEM 2861
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. **Prerequisite: instructor permission and 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
Formerly CHEM 2862
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. **Prerequisite: instructor permission and 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
Formerly CHEM 2863
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. **Prerequisite: instructor permission and 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
Formerly CHEM 2864
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. **Prerequisite: instructor permission and 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
Formerly CHEM 2865
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. **Prerequisite: instructor permission and 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
Formerly CHEM 2866
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. **Prerequisite: instructor permission and 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
Formerly CHEM 2901
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. **Prerequisite: instructor permission and 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
Formerly CHEM 2902
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. **Prerequisite: instructor permission and CHEM& 140 with a grade of 2.0 or higher or high school chemistry with a grade of B or better.**

CHEM 293
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Formerly CHEM 2903
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. **Prerequisite: instructor permission and CHEM& 140 with a grade of 2.0 or higher or high school chemistry with a grade of B or better.**

CHEM 294
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Formerly CHEM 2904
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. **Prerequisite: instructor permission and CHEM& 140 with a grade of 2.0 or higher or high school chemistry with a grade of B or better.**

CHEM 295
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Formerly CHEM 2905
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. **Prerequisite: instructor permission and CHEM& 140 with a grade of 2.0 or higher or high school chemistry with a grade of B or better.**

CHEM 296
Undergraduate Research, Special Topics [M/S] • 1.0–3.0 Credits
Formerly CHEM 2906
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. **Prerequisite: instructor permission and CHEM& 140 with a grade of 2.0 or higher 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.

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 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 • 3.0 Credits
Formerly 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
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 • 3.0 Credits
Formerly 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 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 • 2.0 Credits
Formerly 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. **Recommended prerequisite: CMST 101 or equivalent.**

CMST 142
Debate II • 2.0 Credits
Formerly 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. **Recommended prerequisite: CMST 101 or equivalent.**

CMST 143
Debate III • 2.0 Credits
Formerly 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. **Recommended prerequisite: CMST 101 or equivalent.**

CMST 198
Special Studies • 1.0–15.0 Credits
Formerly CMST 199
A class used to explore new coursework.

CMST 201
Studies in Media & Culture: Rotating Genre Study • 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 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 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 221
Communication Skills for Conflict Resolution [H] • 5.0 Credits
Formerly SPE 220
This course is highly recommended for those majoring in a number of disciplines including Business, Human Resources, Human Services, Criminal Justice, Pre-Law, Psychology, and those interested in improving their skills in resolving personal and work-related conflict. Employers value those with conflict resolution skills, as interpersonal dispute is cited as the

major reason for termination of employees and disruptions to business. Students study conflict theory, practice communication skills, and utilize a basic mediation process plus a face-to-face negotiation technique to engage in active and constructive problem-solving and conflict resolution.

CMST 240
Leadership Development • 5.0 Credits
Formerly 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: ENGL& 101 or instructor permission.**

CMST 241
Applied Leadership I • 2.0 Credits
Formerly SPE 241
This course explores leadership skills, concepts, and theories as it relates to student involvement on campus. **Prerequisite: instructor permission.**

CMST 242
Applied Leadership II • 2.0 Credits
Formerly SPE 242
A continuation of CMST 241, this course explores leadership skills, concepts, and theories as it relates to student involvement on campus. **Prerequisite: instructor permission.**

CMST 243
Applied Leadership III • 2.0 Credits
Formerly SPE 243
A continuation of CMST 242, this course explores leadership skills, concepts, and theories as it relates to student involvement on campus. **Prerequisite: instructor permission.**

CMST 246
Oral Interpretation [H] • 5.0 Credits
Formerly 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 • 1.0–2.0 Credits
Formerly SPE 253
The theory and study of parliamentary procedures.

CMST 260
Multicultural Communication [C] • 5.0 Credits
Formerly 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: ENGL& 101.**

CMST 298
Special Studies • 1.0–15.0 Credits
Formerly CMST 299
A class used to explore new coursework.

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. **Acceptance into a BAS/BSN program or instructor permission.**

Community Education

CSRE 095
Orientation to Correctional Careers • 0.0 Credits
Introduces students to a basic understanding of how important communicating professionally is to the correctional environment. It introduces four areas that are identified as crucial when working in the corrections profession, and provides a basic understanding of how important observation, listening, verbal, and written communications are for correctional employees and correctional facility smooth operations. This course also provides a basic understanding of being able to communicate clearly and professionally with co-workers. **Prerequisite: criminal background check acceptable to the Department of Corrections.**

CSRE 096
Communication in Corrections • 0.0 Credits
Introduces students to a basic understanding of how important communicating professionally is to the correctional environment. It introduces four areas that are identified as crucial when working in the corrections profession, and provides a basic understanding of how important observation, listening, verbal, and written communications are for correctional employees and correctional facility smooth operations. This course also provides a basic understanding of being able to communicate clearly and professionally with co-workers. **Prerequisite: criminal background check acceptable to the Department of Corrections.**

CSRE 097
Supervision/Human Relations in Corrections • 0.0 Credits
Introduces students to the diverse workforce and offender population, and helps them understand the very basics of supervising offenders in a correctional environment. It also provides a basic understanding of how a corrections employee deals with the day-to-day duties in managing a diverse ethnic offender population, while being a positive and professional team member. **Prerequisite: criminal background check acceptable to the Department of Corrections.**

CSRE 098
Community Fitness • 0.0 Credits
Fitness lab designed to allow flexibility in scheduling your own fitness program. This is a community education course; it is non-credit bearing and is for community members only. This course does not apply toward degrees and certificates. New users must complete an orientation. There is a $70.00 per quarter fee. Please contact 509- 542-4418 to sc hedule.

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. **Recommended prerequisite: keyboarding experience.**

CA 101
Keyboarding I • 2.0 Credits
Formerly AOT 101
Introduces the fundamentals of touch typing of letters, numbers, symbols, and operational keys using a computer.

CA 102
Keyboarding II • 2.0 Credits
Reinforces keyboarding skills. Introduces appropriate formatting of business letters, personal letters, memos, reports, and tables using word processing software. **Prerequisite: CA 101 (formerly AOT 101) with a 2.0 or better or instructor permission.**

CA 103
Presentations Graphics Applications • 2.0 Credits
Introduces the fundamentals of Microsoft PowerPoint. Students learn how to create and modify a slide presentation, insert clip art, add slide transition effects, as well as more advanced operations such as creating graphic objects. Preparation for Microsoft Office User Specialist, Microsoft PowerPoint Expert Certification. **Prerequisite: CA 100.**

CA 120
Intro to Computer & Info Tech - Concepts • 2.0 Credits
Formerly CA 1002
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, and ethics. Topics also include: navigating the Internet, using Windows, computer hardware and software concepts, identification of system board parts, input/output devices, and types of storage.

CA 130
Windows Operating System • 1.0 Credit
Formerly CA 1003
Introduces students to the current Windows operating system. Topics include: screen identification, using Help and Support, arranging and sizing windows, personalizing your PC, and file management.

CA 140
Intro to Computer & Info Tech - MS Word • 1.0 Credit
Formerly CA 1004
Introductory class to Microsoft Word, a word processing software application that enables you to easily create both simple and complex documents.

CA 150
Intro to Computer & Info Tech - MS Excel • 1.0 Credit
Formerly CA 1005
Introductory class to Microsoft Excel, a spreadsheet application typically used to display and manipulate numerical data.

CA 160
Intro to Computer & Info Tech - MS PowerPoint • 1.0 Credit
Formerly CA 1006
Introductory class to Microsoft PowerPoint, a presentation software application that allows you to combine text and graphics for on-screen presentations.

CA 170
Microsoft Outlook • 1.0 Credit
Formerly CA 1007
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.

CA 180
Microsoft Access • 1.0 Credit
Formerly CA 1008
Basic concepts of database management systems: creating a new database, sorting and filtering records, using table wizards, creating forms, working with queries, and designing a report.

CA 199
Special Studies • 1.0–5.0 Credits
A class used to explore new approaches to software applications.

CA 299
Special Studies • 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. **Prerequisite: MATH 084 with a grade of 2.0 or better, or MATH 084 with a grade of P if taken before spring 2016, or MATH 040 or MATH 050 with a grade of 2.0 or better or concurrent enrollment.**

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. **Prerequisite: MATH 094 or MATH 095 or MATH 098 with a 2.0 or better or appropriate placement or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 106
Database Systems • 5.0 Credits
This is a beginning database course in which students create, modify, and implement relational databases using Microsoft Access. Topics include: tables, queries, forms, reports, sharing information with other programs, data access pages, advanced queries, managing database objects, and creating macros and navigation forms. **Recommended prerequisite: CS 101 with a 2.5 or better. Prerequisite: MATH 084 with a grade of 2.0 or better, or MATH 084 with a grade of P if taken before spring 2016, or MATH 040 or MATH 050 with a grade of 2.0 or better or test placement.**

CS 107
Intermediate Word Processing • 2.0 Credits
Students learn to create documents using the current version of Microsoft Word. Students learn the principles of word processing to produce and revise a variety of business documents including brochures, flyers, and memoranda. These documents include tables, graphics, and custom formatting to effectively convey written information. **Prerequisite: CS 101.**

CS 108
Intermediate Spreadsheets • 2.0 Credits
Students learn to develop spreadsheets using the current version of Microsoft Excel. Students learn how to use the principles of spreadsheet applications to solve a variety of financial, marketing, manufacturing, and business problems. This course includes hands-on instruction regarding how to use formulas to analyze data and generate documents using charts and graphs focusing on appearance and effectiveness of conveying information. **Prerequisite: CS 101.**

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. **Prerequisite: CS 101 or concurrent enrollment and ENGL 099 or appropriate placement. All CS prerequisites must be passed with a 2.5 or better.**

CS 118
Customer Service • 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. **Prerequisite: MATH 084 with a grade of 2.0 or better, or MATH 084 with a grade of P if taken before spring 2016, or MATH 040 or MATH 050 with a grade of 2.0 or better or appropriate placement.**

CS 123
PC Hardware • 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. **Prerequisite: CS 101 or concurrent enrollment. All CS prerequisites must be passed with a 2.5 or better.**

CS 127
Windows Configuration • 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. **Prerequisite: CS 101 or concurrent enrollment. All CS prerequisites must be passed with a 2.5 or better.**

CS& 131
Computer Science I C++ [M/S] • 5.0 Credits
Formerly CS 161
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. **Prerequisite: MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 140
SharePoint • 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. **Prerequisite: 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
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. **Prerequisite: MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 150
Computer Security • 5.0 Credits
This class covers the basics of computer security. Students learn about virus protection, installing security patches, using firewalls to protect networks, cryptography and Public Key Infrastructure (PKI), and legal issues. **Prerequisite: CS 101 with a 2.5 or better and MATH 096 with a 2.0 or better or MATH 050 or MATH 060 with a 2.0 or better or appropriate placement.**

CS 162
C++2 [M/S] • 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. **Prerequisite: CS& 131 with a 2.5 or better.**

CS 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework. **Prerequisite: as needed.**

CS 202
Programming Fundamentals 2 [M/S] • 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. **Prerequisite: CS 102 with a 2.5 or better.**

CS 206
Database Design • 5.0 Credits
An advanced course designed to help students understand concepts including: SQL, relational algebra, integrity constraints, relational database design, normalization, and physical database design. Students will gain hands-on experience designing a functional relational database. **Prerequisite: CS 106 with a 2.5 or better and MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 217
Internship • 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. **Prerequisite: current enrollment in the Computer Science program, must have a department approved Job Placement into a Computer Science related field, and instructor permission.**

CS 221
SQL Server Administration • 5.0 Credits
This course provides students with the knowledge and skills to install, configure, administer, and troubleshoot Microsoft SQL Server client/server database management systems. It helps prepare students for the MCDBA Certificate. **Prerequisite: CS 106 and CS 228, both with a 2.5 or better, and MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 223
UNIX/Linux • 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. **Prerequisite: CS 101 with a 2.5 or better and MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 225
SQL Server Programming • 5.0 Credits
This course provides students with the knowledge and skills to implement a database solution using Transact SQL and Microsoft SQL Server. Topics include: manipulating data using Transact SQL, enforcing referential integrity, managing relationships, and implementing a physical database ensuring data integrity. **Prerequisite: CS 106 with a 2.5 or better and MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 228
Windows Server • 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. **Prerequisite: MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 230
Active Directory • 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. **Prerequisite: CS 228 with a 2.5 or better and MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 231
Network Infrastructure • 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. **Prerequisite: CS 228 with a 2.5 or better and MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 232
Network Security • 5.0 Credits
This course builds on the experience users gain in previous network and security classes. The class is designed around the layered security framework concept including setting up perimeter defenses down to protecting your data. The class teaches how to implement the proper security measure at each layer to protect the network from a myriad of threats. **Prerequisite: CS 150 and CS 228, both with a 2.5 or better, and MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CS 236
Advanced Object Oriented Programming [M/S] • 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. **Prerequisite: CS& 141 with a 2.5 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. **Prerequisite: CS 102 or CS& 131 or CS& 141 with a 2.5 or better.**

CS 260
Data Structures in C++ • 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++. **Prerequisite: CS 162 with a 2.5 or better.**

CS 262
Game Programming Design and Development • 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. **Prerequisite: CS 102 or CS& 131 or CS& 141 or instructor permission. All prerequisites must be passed with a 2.5 or better.**

CS 299
Special Studies • 1.0–5.0 Credits
A class used to explore new coursework.

Computer Science Information Technology

CSIT 301
Information Systems • 5.0 Credits
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. **Prerequisite: CS 206 and CS 250 and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIT 306
Intro to Big Data and Analysis • 5.0 Credits
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. **Prerequisite: CSIT 311 and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIT 311
Python for Data Processing • 5.0 Credits
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. **Prerequisite: CS 250 and (CS 236 or CS 260) and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIT 316
Cloud Computing HTML5 and PHP • 5.0 Credits
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. **Prerequisite: CS 206 and CS 250 and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIT 401
Information Systems Analysis and Design • 5.0 Credits
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. **Prerequisite: 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.**

CSIT 411
Agile Methodology & ePortfolio Planning • 5.0 Credits
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. **Prerequisite: PROJ 100 and CSIT 401 and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIT 416
Data Visualization • 5.0 Credits
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. **Prerequisite: CSIT 306 and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

CSIT 421
IT Capstone • 5.0 Credits
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. **Prerequisites: CSIT 411 or concurrent enrollment and meets the criteria for acceptance into a BAS/BSN program and completion of a two-year degree or equivalent.**

Criminal Justice and Forensics

CJ& 101
Introduction to Criminal Justice [S/B] • 5.0 Credits
Formerly CJ 131
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 • 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 • 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 • 5.0 Credits
Formerly CJ 136
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 • 5.0 Credits
Formerly CJ 132
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 • 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 • 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 • 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 • 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. **Prerequisite: instructor permission.**

CJ 198
Special Projects • 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. **Prerequisite: instructor permission.**

CJ 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

CJ 222
Alcohol/Drug Pharmacology/Physiology • 3.0 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 • 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: CJ& 101 or instructor permission.**

CJ 234
Criminal Evidence • 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: CJ& 101 or instructor permission.**

CJ& 240
Intro to Forensic Science • 5.0 Credits
Formerly CJ 242
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 290
Basic Reserve Officer Law Enforcement Academy • 1.0–9.0 Credits
An overview of the fundamental subjects associated with the position of Reserve Law Enforcement Officer. Washington Criminal Justice Training Commission approved. A law enforcement agency sponsorship required.

CJ 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Cyber Security

CSIA 200
Computer Forensics Fundamentals • 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. **Prerequisite: CS 150 with a 2.5 or better and MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 with a 2.0 or better or appropriate placement.**

CSIA 250
Networking Fundamentals • 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. **Prerequisite: CS 228 and 231. 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. **Prerequisite: CS 150, CS 231, CSIA 250 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. **Prerequisite: CS 150, CS 206, CS 232 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. **Prerequisite: CS 232, CSIA 300 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 work with wireless technology. Topics include planning, designing, installing, and configuring wireless LANs with an emphasis on security. It also details common wireless LAN uses including maintenance, security, and business applications. It is designed to help students pass the Certified Wireless Network Administrator (CWNA) exam, as well as the new IEEE 802.11 standard. **Prerequisite: CS 150, CSIA 250, CSIA 300 or concurrent enrollment, 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. **Prerequisite: CS 150, CS 231, CSIA 250 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. **Prerequisite: CSIA 250, CS 232, CSIA 300, CSIA 320 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. **Prerequisite: CS 232, CSIA 250, CSIA 300, CSIA 320 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. **Prerequisite: CSIA 300, CSIA 320, CSIA 330 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. **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 Hygiene

DHYG 301
Dental Anatomy • 1.0 Credit
Formerly DHYG 110
An introduction to the anatomy of crown and root structures of the teeth. Builds on basic sciences and prepares for the study of additional dental sciences of Restorative I, II, and III, as well as tooth identification of dentition in patients. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 302
Histology/Embryology • 2.0 Credits
Formerly DHYG 111
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: enrollment in the CBC Dental Hygiene program.**

DHYG 303
Oral Radiology I • 1.0 Credit
Formerly DHYG 112
First in a two-quarter series course of oral radiology. Focuses on radiation physics, biology, and protection of the patient when radiographs are taken, recognition of anatomical landmark, evidence of pathology, and abnormalities. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 304.**

DHYG 304
Oral Radiology I Lab • 1.0 Credit
Formerly DHYG 101
First in a two-quarter series course of oral radiology labs. Application of patient protection, radiographic film placement, and proper exposure and developing techniques. Identification of oral structures identifiable in exposed radiographs. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 303.**

DHYG 305
Clinical Dental Hygiene Techniques I • 2.0 Credits
Formerly DHYG 113
Introduction of the basic principles used in the practice of dental hygiene. Includes infection control standards (OSHA), universal precautions, patient assessment, and treatment standards. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 306.**

DHYG 306
Clinical Dental Hygiene Techniques I Lab • 3.0 Credits
Formerly DHYG 102
The clinical practice of basic skills of infection control, patient assessment, and treatment in the clinical setting, and pre-clinical setting on dental typodont models progressing to student partners. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 305.**

DHYG 307
Dental Health Education • 1.0 Credit
Formerly DHYG 114
The principles and practices of prevention and control of dental disease is covered with emphasis on biofilm control, cardiology, motivation of the patient, and personal and patient oral hygiene education and techniques. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 308
Dental Materials • 1.0 Credit
Formerly DHYG 115
First course in the restorative series; presents history, composition, chemical and physical properties, and use of materials commonly used in the dental laboratory and dental operatory. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 309.**

DHYG 309
Dental Materials Lab • 1.0 Credit
Formerly DHYG 103
First in the restorative lab series; provides experiences in common dental procedures and prepares students for the practice of expanded functions as allowed by the state of Washington. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 308.**

DHYG 310
Head and Neck Anatomy • 2.0 Credits
Formerly DHYG 116
The study of the head and neck regions, identification of nerves, bones of the skull, and muscles associated with the head and neck region; oral anatomy and oral regions structure and function; dysfunction in swallowing and nasal pathways; and origins of sleep apnea and its resulting impact on systemic health. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 311
Medical Emergencies in Dentistry • 2.0 Credits
Formerly DHYG 120
Commonly encountered medical emergencies that may occur in the dental setting; presenting signs and symptoms of systemic reactions; recommended treatment protocols and emergency procedures are covered. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 312
General Pathology • 2.0 Credits
Formerly DHYG 121
The study of systemic diseases and their etiology; presentation of signs and symptoms of disease manifestation; inflammatory process, immune response and healing; current recommended treatments; morbidity, mortality, and the impact of oral inflammation and disease on systemic health. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 313
Oral Radiology II • 1.0 Credit
Formerly DHYG 122
The second in a series of the study of oral radiology; focuses on radiographic quality, techniques, film processing, mounting, and interpretation of errors, including pathology and cariogenic lesions. Includes both traditional and digital techniques of exposure and processing. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 314.**

DHYG 314
Oral Radiology II Lab • 1.0 Credit
Formerly DHYG 104
The second in a series of oral radiology lab which includes practice of oral radiographic skill and technique on a dental manikin and student partner in a clinical setting. Application of knowledge from DHYG 304 radiographic technique and evaluation of films diagnostic quality and

effectiveness. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 313.**

DHYG 315
Clinical Dental Hygiene Techniques II • 2.0 Credits
Formerly DHYG 123
Second in a series of clinical dental hygiene techniques; focus is on dental hygiene treatment planning, effective communication with patients, preventive dental patient education, and skill development in clinical skills. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 316.**

DHYG 316
Clinical Dental Hygiene Techniques II Lab • 4.0 Credits
Formerly DHYG 105
Second in a series of clinical practice of dental hygiene; skill development in patient assessment, instrumentation and treatment are introduced and practiced on a dental typodont, student partners, and patients in a clinical setting. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 315.**

DHYG 318
Restorative Dentistry I • 1.0 Credit
Formerly DHYG 125
Second in a series of courses in restorative dentistry; focus on composition and physical properties of amalgam and its use as a dental restorative material; amalgam safety and handling is taught to protect student clinicians. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 319.**

DHYG 319
Restorative Dentistry I Lab • 1.0 Credit
Formerly DHYG 106
Second in a series of laboratory courses in restorative dentistry. Laboratory experience in the safe placement and handling and manipulation of amalgam restorative materials to complete Class I restorations. Materials are used in typodonts to restore prepared typodont teeth to simulate original anatomy of the tooth. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 318.**

DHYG 320
Pain Control in Dentistry • 2.0 Credits
Formerly DHYG 126
This course 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: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 321.**

DHYG 321
Pain Control in Dentistry Lab • 2.0 Credits
Formerly DHYG 107
Effective techniques in the delivery of nerve block and infiltration injections in the oral cavity is covered as well as the 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 the state of Washington and are practiced in accordance with the Washington Regional Examining Board standards. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 320.**

DHYG 322
Pharmacology • 2.0 Credits
Formerly DHYG 127
The study of pharmacology as it affects the clinical practice of dentistry; emphasis is on drugs commonly used to treat medical conditions and their impact on dental treatment; systemic and oral diseases are covered as well as the drugs of choice for these conditions; effects, administration, biotransformation, and toxicology as potential for emergency reactions, idiopathic reactions, and emergency treatment protocols. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 323
Oral Pathology • 2.0 Credits
Formerly DHYG 131
The study of commonly encountered oral diseases including their etiology, presentation, recognition, treatment chosen, their 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 definitive diagnosis. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 324
Periodontics I • 2.0 Credits
Formerly DHYG 132
The first of a two-quarter series on the health and disease states of the dental periodontal tissues; components of the gingival and periodontal structures and the contributing factors that cause gingivitis and periodontitis; the oral-systemic link and systemic disease states such as cardiovascular disease, diabetes, pregnancy, etc. that are linked to the presence of periodontal pathogens. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 325
Clinical Dental Hygiene Techniques III • 2.0 Credits
Formerly DHYG 134
Third in a series of courses designed to teach dental hygiene techniques and the expanded development of clinical dental hygiene skills. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 326.**

DHYG 326
Clinical Dental Hygiene Techniques III Lab • 4.0 Credits
Formerly DHYG 108
Third in a series on clinical practice of dental hygiene; basic skills of dental hygiene practice including patient assessment, instrumentation and treatment expanding on procedures and techniques introduced in previous clinical courses. First introduction to work on patients and continued development of procedures and techniques introduced in in previous clinical courses. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 325.**

DHYG 327
Restorative Dentistry II • 1.0 Credit
Formerly DHYG 135
Third in a series of restorative dentistry lecture on skill development including dental preparation design; isolation technique, application of dental materials, amalgam restorations, and composite materials to replace Class I, II, and III prepared restorations in typodont teeth.

Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 328.

DHYG 328
Restorative Dentistry II Lab • 2.0 Credits
Formerly DHYG 109
Third in a series of laboratory courses teaching preclinical principles of the placement and finishing of Class I, II, and III prepared typodont teeth using amalgam and composite materials to duplicate the missing anatomy in prepared teeth; includes application of dental anatomy, dental materials, and clinical skill development. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 327.**

DHYG 329
Patient Management • 2.0 Credits
Formerly DHYG 136
Lecture and student participation in study of characteristics of individual patients, motivation, and interpersonal communication; 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: enrollment in the CBC Dental Hygiene program.**

DHYG 330
Clinical Dental Hygiene Techniques IV • 1.0 Credit
Formerly DHYG 144
Fourth in a series of lectures providing expanded learning and application of knowledge of oral findings and associated clinical application; progressive dental hygiene techniques for the periodontally involved patient including use of ultrasonic scaler, advanced instrumentation techniques for root surfaces, and treatment of the pregnant patient through menopause, the elderly patient, patients with dental prostheses, and edentulous patients. Enrollment in the CBC DHYG program is required. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 331.**

DHYG 331
Clinical Dental Hygiene Techniques IV Lab • 5.0 Credits
Formerly DHYG 147
Fourth in a series of dental hygiene technique lab courses; provides expanded learning experience of dental hygiene techniques through performing clinical dental hygiene care for a variety of patients, and the clinical application of learned skills; critical evaluation of dental hygiene treatment needs and the delivery of care on patients. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 330.**

DHYG 401
Restorative Dentistry III • 1.0 Credit
Formerly DHYG 246
Fourth in a series of restorative dentistry skills as allowed to be practiced by dental hygienists in WA state; Class II and Class III Amalgam and Composite restorations and cusp build-up restorations and restoring anterior teeth. **Prerequisite: enrollment in the CBC Dental Hygiene program and completion of DHYG 327.**

DHYG 402
Restorative Dentistry III Lab • 2.0 Credits
Formerly DHYG 220
Fourth in a series of restorative labs with focus on the placement and finishing of Class II and III Amalgam and Composite restorations and cusp build-ups and restoring anterior teeth; practice is continued on typodont teeth, restorations on patients in a clinical setting. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 403
Community Oral Health Research I • 2.0 Credits
Study and evaluation of strategies to improve oral health for varying age groups; functioning as an oral health advocate in a community setting. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 404
Nutrition in Dentistry • 1.0 Credit
Formerly DHYG 211
An initial recall and review of principles of nutrition with enhanced information on nutrition's relationship to oral health; emphasis is placed on assessment of a patient's nutritional knowledge and eating habits and the impact that these have on their oral health/disease. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 405
Advanced Clinical Topics • 1.0 Credit
Formerly DHYG 212
Topics presented include use of lasers, advanced instrumentation techniques, endoscopy use in dentistry, use of ultraviolet light for the detection of oral lesions, etc. Alternative practice settings and additional educational pursuits and career tracking; expanded work venues, work in public health settings and the military are explored. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 406
Clinical Dental Hygiene Techniques V • 1.0 Credit
Formerly DHYG 214
Fifth in a series of clinical dental hygiene technique courses; providing expanded learning experience of case presentations and study of clinical cases, advanced clinical techniques of Local Anesthesia (AMSA, Gow-Gates, The Wand, Interseptal anesthesia), etc. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 407.**

DHYG 407
Clinical Dental Hygiene Techniques V Lab • 6.0 Credits
Formerly DHYG 216
Fifth in the series of dental hygiene practice lab; progressive clinical experience in patient assessment, dental hygiene treatment planning, and clinical work on patients; continued development of clinical skills and knowledge, including restorative care on patients. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 406.**

DHYG 408
Ethics and Jurisprudence, Practice Management • 2.0 Credits
Formerly DHYG 215
Study of the ethical framework of the ADHA Code of Ethics, the Washington Dental Hygiene Practice Act; ethical problem solving and ethical decision making; history of the profession, jurisprudence, and working within the legal boundaries of the law for the profession of dental hygiene; practice management styles, insurance coding, team participation, and leadership. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 409
Community Oral Health Research II • 2.0 Credits
Use of public health concepts and their impact on community health research; design elements included in research; selection of research

topic, and exploration of community partners to include in the pursuit of a research project; development of a research project to be field tested, evaluated, and presented to stake holders during spring quarter. **Prerequisite: enrollment in the CBC Dental Hygiene program and DHYG 403 with a 2.0 or better.**

DHYG 410
Periodontics II • 2.0 Credits
Formerly DHYG 222
Second in a series of courses in the study of periodontology; background knowledge of advanced treatment of periodontal disease including assessment, diagnosis, treatment planning, evaluation of outcomes and further maintenance or retreatment needs included; use of intra oral digital photography on a selected periodontal patient for development of a case presentation; determination of referral for out of scope treatment needs; oral home care evaluation and patient compliance; exacerbating medical or systemic factors for disease progression. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 411
Clinical Dental Hygiene Techniques VI • 1.0 Credit
Formerly DHYG 224
Sixth in a series of clinical dental hygiene technique courses; clinical experiences involving periodontally involved patients and assessment and evaluation of continued care needs and intervals for maintenance; discussion and determination of restorative needs and care. **Prerequisite: enrollment in the CBC Dental Hygiene program and completion of DHYG 406 and 407.**

DHYG 412
Clinical Dental Hygiene Techniques VI Lab • 7.0 Credits
Formerly DHYG 218
Sixth in a series of clinical practice in dental hygiene providing comprehensive clinical experience in all phases of dental hygiene process of care for patient care; clinical work expands on the procedures and techniques introduced in prior clinical courses including placement of restorations on patients. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

DHYG 413
Clinical Dental Hygiene Techniques VII • 1.0 Credit
Formerly DHYG 234
Seventh in a series of clinical dental hygiene technique courses; expanded learning through discussion and exploration of clinical practice in a variety of settings; discussion and practice of accelerated scheduling of patients (Private Practice Days); work expectations in community based clinics, public health clinics, private dental practices, specialty practices, etc. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 414.**

DHYG 414
Clinical Dental Hygiene Techniques VII Lab • 9.0 Credits
Formerly DHYG 219
Seventh in a series of clinical practice in dental hygiene providing comprehensive dental hygiene services in a clinical setting; completing dental hygiene process of care and the implementation of patient care for a variety of patients; practice of implementing accelerated hygiene with the use of an assistant as well as working independently; placement of restorations on patients. **Prerequisite: enrollment in the CBC Dental Hygiene program and concurrent enrollment in DHYG 413.**

DHYG 415
Community Oral Health Practicum • 2.0 Credits
This course is the final segment (capstone) in the series that implements and evaluates an oral health program/project designed to improve the well-being of citizens and provide access to care to underserved populations. Students will present oral health program outcomes to stakeholders and the community in an effort to develop evidence-based research. This course takes place outside of the classroom in an experiential learning format. **Prerequisite: enrollment in the CBC Dental Hygiene program and DHYG 409 with a 2.0 or better.**

DHYG 416
Educational Theory and Methodology • 2.0 Credits
Understanding and implementing pre-assessment strategies to determine participants knowledge levels; the creation of an overview and objectives to provide learners with a context for learning; giving targeted feedback and performance evaluation to enhance continual learning goals; and selecting among direct instruction, inquiry-based learning and cooperative learning depending on the chosen outcomes. **Prerequisite: enrollment in the CBC Dental Hygiene program.**

Early Childhood Education

ECED&100
Child Care Basics • 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 • 3.0 Credits
Formerly ECE 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 • 3.0 Credits
Formerly ECE 103
Provides the student with a basic understanding of the methods used for teaching visual art to young children in a developmentally appropriate manner.

ECED&105
Intro to Early Childhood Education • 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 • 5.0 Credits
Formerly ECE 230
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.

ECED 110
Preschool Seminar • 1.0–3.0 Credits
Formerly ECE 1172
Provides an opportunity to participate in a short-term seminar relating to early childhood education.

ECED 112
Introduction to ELL Teaching Strategies • 3.0 Credits
Formerly ECE 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 • 1.0–3.0 Credits
Formerly ECE 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 • 1.0–3.0 Credits
Formerly ECE 117
Provides an opportunity to participate in an intensive, short-term learning experience relating to early childhood education.

ECED 118
Skills Training • 1.0–3.0 Credits
Formerly ECE 118
Provides an opportunity to participate in a short-term skills training relating to early childhood education.

ECED 119
ECED Workshop • 1.0–3.0 Credits
Formerly ECE 119
An opportunity to participate in a workshop class relating to early childhood education.

ECED&120
Practicum-Nurturing Relationships • 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 • 1.0–5.0 Credits
Formerly ECE 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 • 3.0 Credits
Formerly ECE 120
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 • 3.0 Credits
Formerly ECE 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 • 3.0 Credits
Formerly ECE 205
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 • 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 • 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 • 3.0 Credits
Formerly ECE 215
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 • 10.0 Credits
Formerly ECE 141
Provides the formal education hours required for Child Development Associate (CDA) candidates working in center-based infant & 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 • 1.0–10.0 Credits
Formerly ECE 1411
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 • 1.0–11.0 Credits
Formerly ECE 1412
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 • 1.0–11.0 Credits
Formerly ECE 1413
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 • 1.0–11.0 Credits
Formerly ECE 1414
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 • 1.0–11.0 Credits
Formerly ECE 1415
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 • 1.0–11.0 Credits
Formerly ECE 1416
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 • 1.0–11.0 Credits
Formerly ECE 1417
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 • 1.0–11.0 Credits
Formerly ECE 1418
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
Supervised Practicum • 3.0 Credits
Formerly ECE 151
Designed to be taken just before completion of an Early Childhood Education certificate or degree, this class must be taken in conjunction with ECED 152. In class, theory is combined with practical experience in an ECE setting. Emphasis is on improving teaching skills through self-evaluation. **Prerequisite: concurrent enrollment in ECED 152.**

ECED 152
Supervised Practicum Lab • 1.0–6.0 Credits
Formerly ECE 1511
Designed to be taken just before completion of an Early Childhood Education certificate or degree, this class must be taken in conjunction with ECED 151. The student is required to spend 33 hours working in an early childhood setting to complete class assignments. **Prerequisite: concurrent enrollment in ECED 151.**

ECED 153
Child Development Associate • 1.0–11.0 Credits
Formerly ECE 1419
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 • 5.0 Credits
Formerly ECE 202
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 • 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 • 3.0 Credits
Formerly ECE 126
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 • 3.0 Credits
Formerly ECE 121
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 • 3.0 Credits
Formerly ECE 201
Explores the theory and practice of implementing a culturally responsive and inclusive early childhood program.

ECED 216
Advanced Special Topics • 1.0–3.0 Credits
Formerly ECE 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 • 1.0–3.0 Credits
Formerly ECE 217
Provides an opportunity to participate in an advanced short-term learning experience relating to early childhood education.

ECED 218
Advanced Skills Training • 1.0–3.0 Credits
Formerly ECE 218
Provides an opportunity to participate in an advanced short-term skills training relating to early childhood education.

ECED 219
Advanced Workshop • 1.0–3.0 Credits
Formerly ECE 219
An opportunity to participate in an advanced workshop class relating to early childhood education.

ECED 221
Strategies for Teaching Special Needs • 3.0 Credits
Formerly ECE 221
An introduction to teaching methods that can be used with children who have special needs in an inclusive early care & education setting. **Prerequisite: EDUC& 203.**

ECED 222
Sign Language Level 1 • 3.0 Credits
Formerly ECE 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 • 3.0 Credits
Formerly ECE 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: ECED 222 or instructor permission.**

ECED 224
Sign Language Level 3 • 3.0 Credits
Formerly ECE 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: ECED 223 or instructor permission.**

ECED 251
Advanced Supervised Practicum • 1.0–3.0 Credits
Formerly ECE 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 • 1.0 Credit
Formerly ECE 2511
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 280
Special Studies Lab • 1.0–3.0 Credits
Formerly ECE 2891
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 281
Special Studies Lab • 1.0–15.0 Credits
Formerly ECE 2892
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 282
Special Studies Lab • 1.0–15.0 Credits
Formerly ECE 2893
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 283
Special Studies Lab • 1.0–15.0 Credits
Formerly ECE 2894
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 284
Special Studies Lab • 1.0–15.0 Credits
Formerly ECE 2895
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 285
Special Studies Lab • 1.0–15.0 Credits
Formerly ECE 2896
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 286
Special Studies Lab • 1.0–15.0 Credits
Formerly ECE 2897
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 287
Special Studies Lab • 1.0–15.0 Credits
Formerly ECE 2898
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 288
Special Studies Lab • 1.0–15.0 Credits
Formerly ECE 2899
Designed to incorporate into the curriculum special learning opportunities in the field of early childhood education.

ECED 289
Special Studies • 1.0–15.0 Credits
Formerly ECE 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. **Prerequisite: Admission into the BASTE program at CBC, ECED& 105, department permission, 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. **Prerequisite: Admission into the BASTE program at CBC, ECED& 105, department permission, 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. **Prerequisite: Admission into the BASTE program at CBC, ECED& 105, department permission, criminal background check required.**

Economics

ECON 110
Economic Trends, Issues and Policy [S/B] • 5.0 Credits
Formerly EC 110

This course is intended as a non-technical, issues-orientated 100-level course in economics. This course uses economic theory to analyze economic situations and the implications for possible public policy. The economic theory is very basic and appropriate, and not geared to business and economics majors but to those students who would like an overview of economic theory. The theory includes supply and demand, aggregate supply and aggregate demand, production possibilities, and a basic description of the general macroeconomic model. Some economic history related to the formation of U.S. policy and law is included. This course includes issues of gender, race, and ethnicity.

ECON 116
Economic Development of the United States • 5.0 Credits
Formerly EC 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
Micro economic concepts are applied to business and household decision-making as well as public policy. Major topics include: scarcity and choice, production possibilities, alternative allocative mechanisms, supply and demand analysis, elasticity, consumer choice, production and costs, market structures, antitrust and regulation, and public micro economics.

ECON&202
Macro Economics [S/B] • 5.0 Credits
Formerly EC 201
This course introduces such important concepts as: market systems and their alternatives, supply and demand, measurement and determination of a nation's output and income, inflation and unemployment, both demand-side and supply-side aspects of fiscal and monetary policies, federal debt, and international trade and finance.

ECON 291
History of American Economic Development [S/B] • 1.0–5.0 Credits
Formerly EC 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: meets the criteria for 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: meets the criteria for 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: meets the criteria for 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
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. This class must be taken in conjunction with EDUC 197.

EDUC 108
Paraeducator in Schools • 3.0 Credits
Formerly ED 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 • 5.0 Credits
Formerly ED 111
An overview of instructional strategies including theory and practical application within the K-12 classroom.

EDUC 112
Introduction to ELA Teaching Strategies • 3.0 Credits
Formerly ED 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 • 3.0 Credits
Formerly ECE 106
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 • 5.0 Credits
Formerly EDUC 106
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 • 1.0–3.0 Credits
Formerly ED 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 • 5.0 Credits
Formerly ED 128
An introduction to math instruction including math reform philosophy, theory, and practical application within the K-12 system.

EDUC&130
Guiding Behavior • 3.0 Credits
Formerly ECE 104
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 • 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 • 3.0 Credits
Formerly ECE 209
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 • 4.0 Credits
Formerly EDUC 1532
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.

EDUC 197
Field Experience • 1.0–2.0 Credits
Formerly EDUC 1972
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.

EDUC 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

EDUC&203
Exceptional Child • 3.0 Credits
Formerly ECE 107
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 • 1.0–15.0 Credits
A class used to explore new coursework.

Electronics

ELT 101
Basic Electricity • 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 • 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: grade of 2.0 or better in MATH 095 or MATH 050 or MATH 070 or satisfactory placement test score.**

ELT 124
Direct Current Circuits • 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.

ELT 134
Alternating Current Circuits • 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: ELT 124.**

ELT 154
Semiconductors and Op Amps • 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: ELT 134.**

ELT 171
Digital Fundamentals • 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: ELT 154.**

ELT 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

ELT 201
Basic Electronics • 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 • 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: ELT 124.**

Emergency Medical Technician

EMT 101
Emergency Medical Technician-Basic • 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. **Prerequisite: Acceptance into the EMT Program. Completion of ENGL 099 strongly recommended.**

EMT 103
Advanced Emergency Medical Technician (AEMT) I • 9.0 Credits
This is the first course of a two-quarter sequence primarily focused on training students to the level of an Advanced Emergency Medical Technician (AEMT). The objectives of this class are to prepare students to take EMT 104 by developing an understanding of the preparatory and fundamental components of the AEMT. This class covers application of protocols, refining EMT skills and knowledge, deepening the understanding of pathophysiology as it relates to medical and trauma patients, IV therapy, and medication administration. In addition, there will be extensive skills evaluation of necessary psychomotor components through breakout labs and group exercises as well as an internship to practice the appropriate skills. **Prerequisite: EMT for one year and actively involved and sponsored by an EMS agency. Recommended: eligibility for ENGL 099 or better and eligibility for MATH 094, 040, or better.**

EMT 104
Advanced Emergency Medical Technician (AEMT) II • 9.0 Credits
This is the second course of a two-quarter sequence primarily focused on training students to the level of an Advanced Emergency Medical Technician (AEMT). The objectives of the class are to prepare students to achieve certification as a National Registered Advanced EMT by building on the base of knowledge previously established through experience and EMT 103. This class covers application of protocols, documentation, resuscitation, managing the trauma, and OB patients. In addition, there will be extensive skills evaluation of necessary psychomotor components through breakout labs and group exercises as well as an internship to practice the appropriate skills. **Prerequisite: EMT 103 with a 2.0 or better.**

Engineering Technology

ENT 111
Introduction to Engineering • 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. **Prerequisite: grade of 2.0 or higher in MATH 095 or MATH 098 or MATH 070 or MATH 072 or concurrent enrollment or satisfactory placement test score or instructor permission.**

ENT 114
Introduction to Drafting • 4.0 Credits
Formerly 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.

ENT 118
Spatial Visualization • 2.0 Credits
An overview of the techniques used to mentally manipulate 2-dimensional and 3-dimensional figures. Includes the basics of drafting such as line types, orthographic projection, isometric drawings, and basic applications.

ENT 121
Engineering Fundamentals w/ Lab • 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. **Prerequisite: grade of 2.0 or higher in ENT 111.**

ENT 122
Materials • 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.

ENT 124
Intermediate Drafting • 4.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or higher in ENT 114, or grade of 2.0 or higher in ENT 118 and ENT 267, or instructor permission.**

ENT 128
Architecture & Engineering Blueprint Reading • 2.0 Credits
An overview of the techniques used in reading construction drawings for architecture and engineering projects.

ENT 134
Surveying w/ Lab • 6.0 Credits
A course in plane surveying which includes: horizontal, vertical, and angular measurements, traversing, mapping, construction survey, land survey, and calculations. **Prerequisite: MATH 113, MATH& 142, or instructor permission.**

ENT 135
Statics • 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. **Prerequisite: grade of 2.0 or higher in MATH 113 or satisfactory placement test score and ENT 121 or instructor permission.**

ENT 136
Advanced Drafting • 4.0 Credits
Formerly ENT 1361
Advanced principles of drafting and CAD to include 3D projects, plan and profile drawings, advanced views, advanced sections, and dimensioning. **Prerequisite: grade of 2.0 or higher in ENT 124 or instructor permission.**

ENT 171
Technical Drafting • 3.0 Credits
Formerly ENT 1711
An introductory course in mechanical drawing which includes: geometric construction, orthographic projection, sectional views, auxiliary views, isometric and oblique drawings, dimensions, threads, fasteners, and lettering.

ENT 199
Special Studies • 3.0 Credits
An experimental class to be used to explore new approaches and applications to engineering technology. **Prerequisite: student must be enrolled in the ENT program and have instructor permission.**

ENT 214
Strength of Materials • 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. **Prerequisite: grade of 2.0 or higher in ENT 135 or instructor permission.**

ENT 216
Mechanical Drafting & Design • 5.0 Credits
Formerly ENT 2161
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. **Prerequisite: grade of 2.0 or higher in ENT 136 or instructor permission.**

ENT 219
Construction Estimating • 1.0 Credit
Formerly ENT 2191
An overview of the techniques used in estimating material quantities in construction projects. **Prerequisite: grade of 2.0 or higher in ENT 122 or instructor permission.**

ENT 224
Structures • 5.0 Credits
Load analysis and design of basic structural members using timber and steel. **Prerequisite: grade of 2.0 or higher in ENT 214 or instructor permission.**

ENT 226
Architectural/Structural Drafting • 5.0 Credits
Formerly ENT 2261
A drafting and design course covering construction techniques, architectural drawings, organization of drawing sets, and design projects. **Prerequisite: grade of 2.0 or higher in ENT 136 or instructor permission.**

ENT 229
Construction Specifications • 2.0 Credits
A study of construction specifications using the CSI format. **Prerequisite: ENT 219 and completion of or concurrent enrollment in ENT 226 or instructor permission.**

ENT 236
Design • 5.0 Credits
Formerly ENT 2361
Various individual and team projects with specific criteria and constraints assigned. The completed projects are formally presented using both oral and written reporting techniques. **Prerequisite: ENT 224, ENT 226, and enrollment in the ENT program.**

ENT 238
Electricity • 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. **Prerequisite: MATH& 141 and enrollment in the ENT program or instructor permission.**

ENT 267
AutoCAD I w/ Lab • 3.0 Credits
This course utilizes AutoCAD for computer-aided drafting (CAD). The course shows how to use AutoCAD to set up drawings, additional draw and edit commands, dimensioning, and text. Students utilize drafting and editing techniques to efficiently produce their drawings. **Prerequisite: ENT 116 or equivalent.**

ENT 268
AutoCAD II w/ Lab • 3.0 Credits
This course goes beyond the basic fundamentals of AutoCAD and examines ways to use it in today's workplace. Emphasis is placed on advanced commands including: blocks, dimensions, attributes and extracting them, paper space/model space, xrefs, and file management. The class then customizes a menu creating: custom pulldown menus, toolbars, and macros. **Prerequisite: grade of 2.0 or higher in ENT 267 or instructor permission.**

ENT 270
3-D w/ Lab • 3.0 Credits
The focus of this course is three-dimensional drawings using AutoCAD. After completion, students are proficient in wire line and surface 3-D modeling. There is also a brief overview of rendering and transferring of rendered information to other presentation software. **Prerequisite: grade of 2.0 or higher in ENT 268 or instructor permission.**

ENT 271
Drawing Production w/ Lab • 3.0 Credits
This course simulates actual drawing projects in a variety of disciplines such as: civil, structural, architectural, mechanical, and electrical. Students are expected to develop and manage large sets of drawings. **Prerequisite: grade of 2.0 or higher in ENT 268 or instructor permission.**

ENT 272
Advanced 3-D w/ Lab • 3.0 Credits
The focus of this course is three-dimensional solid modeling using a 3-D CAD program. After completion, students are proficient in 3-D solids modeling, mass property takeoffs, and the uses of three-dimensional media across software platforms. **Prerequisite: grade of 2.0 or higher in ENT 268 or instructor permission.**

ENT 273
Advanced AutoCAD Applications w/ Lab • 3.0 Credits
This course covers advanced AutoCAD features, such as how AutoCAD interacts with the web, from transmitting files, reviewing, to collaborating. The class also examines AutoCAD interactions with other programs. Advanced features of attributes, xrefs, and layouts, etc. Express Tools are also covered. **Prerequisite: grade of 2.0 or higher in ENT 268 or instructor permission.**

ENT 274
Architectural Residential Drawing w/ Lab • 3.0 Credits
A drafting and design course covering architecture, residential drawings, and the organization of drawing sets incorporating design projects. **Prerequisite: ENT 267.**

ENT 280
Extended CAD Lab • 1.0–3.0 Credits
Formerly ENT 2801
This is an open lab class to support AutoCAD. It allows for intermediate and advanced skill placement. Specific projects may be assigned. It is a variable credit, continued enrollment class. **Prerequisite: ENT 267 or instructor permission.**

ENT 299
Special Studies • 5.0 Credits
An experimental class to be used to explore new approaches and applications to engineering technology. **Prerequisite: student must be enrolled in the ENT program and have instructor permission.**

English

ENGL 090
Writing Express • 1.0–3.0 Credits
Formerly ENG 090
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. **Prerequisite: successful completion of ENGL 098 or ENGL 099 placement.**

ENGL 091
Grammar Skills • 5.0 Credits
Formerly ENG 091
A review of basic grammar including sentence writing and editing, sentence structure, usage, and mechanics. Grade is pass/no credit. **Prerequisite: appropriate placement.**

ENGL 095
English Review • 5.0 Credits
Formerly ENG 095
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.

ENGL 097
Special Studies • 5.0 Credits
A class used to explore new coursework.

ENGL 098
Writing Prep I • 5.0 Credits
Formerly ENG 098
This course is designed to teach the basics of writing well-developed and grammatically correct single and multiple paragraph papers. **Prerequisite: ENGL 098 placement or successful completion of ENGL 091.**

ENGL 099
Writing Prep II • 5.0 Credits
Formerly ENG 099
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. **Prerequisite: successful completion of ENGL 098 or ENGL 099 placement.**

ENGL&101
English Composition I [C] • 5.0 Credits
Formerly ENG 101
Study and application of the principles of writing clear exposition with emphasis on organizing unified and coherent essays. **Prerequisite: passing grade in ENGL 090 or 099 or placement into ENGL& 101.**

ENGL&102
Composition II [C] • 5.0 Credits
Formerly ENG 201
An advanced expository writing course focusing on research essays and other aspects of college writing. **Prerequisite: ENGL& 101 with a 1.0 or better.**

ENGL 103
Writing in the Workplace • 5.0 Credits
Formerly ENG 103
This course is designed to teach writing tasks encountered in the workplace including resumes, business letters, memos, reports, instructions, and policies. **Prerequisite: successful completion of ENGL 099 or placement into ENGL& 101.**

ENGL&111
Intro to Literature [H] • 5.0 Credits
Formerly 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 099.**

ENGL 140
The Cinema [H] • 5.0 Credits
Formerly 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: ENGL 099 or concurrent enrollment.**

ENGL 160
Women's Literature [H] • 5.0 Credits
Formerly 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 099.**

ENGL 180
Multicultural Literature [H] • 5.0 Credits
Formerly 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 099.**

ENGL 195
Bible as Literature [H] • 5.0 Credits
Formerly 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 099.**

ENGL 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

ENGL 203
Mythology [H] • 5.0 Credits
Formerly 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 099.**

ENGL 210
Intro to Linguistics [H] • 5.0 Credits
Formerly ENG 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: ENGL& 101 or concurrent enrollment in ENGL& 101.**

ENGL&220
Intro to Shakespeare [H] • 5.0 Credits
Formerly 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 099.**

ENGL&235
Technical Writing [C] • 5.0 Credits
Formerly ENG 205
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: ENGL& 101 with a 1.0 or better.**

ENGL&236
Creative Writing I [H] • 5.0 Credits
Formerly ENG 240
A study of creative writing, emphasizing diverse styles and techniques. **Strongly recommended: ENGL& 101.**

ENGL&237
Creative Writing II [H] • 5.0 Credits
Formerly ENG 241
A continuation of ENGL& 236. **Prerequisite: ENGL& 236.**

ENGL&244
American Literature I [H] • 5.0 Credits
Formerly 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 099.**

ENGL&245
American Literature II [H] • 5.0 Credits
Formerly LIT 226
A survey of American literature from Civil War to World War I. **Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099.**

ENGL&246
American Literature III [H] • 5.0 Credits
Formerly LIT 227
A survey of American literature from World War I to the present. **Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099.**

ENGL&254
World Literature I [H] • 5.0 Credits
Formerly LIT 205
A survey of world literature from ancient times through the Roman Empire. **Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099.**

ENGL&255
World Literature II [H] • 5.0 Credits
Formerly 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 099.**

ENGL&256
World Literature III [H] • 5.0 Credits
Formerly LIT 207
A survey of world literature emphasizing Romanticism, Realism, and Modernism. **Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099.**

ENGL 257
English Grammar [H] • 5.0 Credits
Formerly ENG 255

An introduction to the terms, concepts (including phonemics, morphology, and syntax), and analytical methods of English grammar. **Prerequisite: ENGL& 101 or concurrent with ENGL& 101.**

ENGL 264
English Literature [H] • 5.0 Credits
Formerly LIT 264
A survey of English literature from Beowulf to 1640. **Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099.**

ENGL 265
English Literature [H] • 5.0 Credits
Formerly LIT 265
A survey of English literature from 1640 to 1800. **Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099.**

ENGL 266
English Literature [H] • 5.0 Credits
Formerly LIT 266
A survey of English literature from 1800 to the present. **Prerequisite: eligible for ENGL& 101 or currently enrolled in ENGL 099.**

ENGL 275
The Lord of the Rings [H] • 5.0 Credits
Formerly 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 099.**

ENGL 280
Lesbian, Gay, Bisexual, Trans, Queer Studies [H] • 5.0 Credits
Formerly LIT 280
An introduction to the interdisciplinary field of lesbian/gay/bisexual/transgender/queer 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 099.**

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: ENGL& 101 or ENGL& 102 or ENGL&235 with a grade of 2.0 or higher. Meets the criteria for 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: successful completion of ENGL& 101 and acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

English Language Acquisition

ELA 009
ELA ED Interviewing • 1.0–3.0 Credits
Formerly ESL 009
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.

ELA 010
ELA Level 1 • 1.0–18.0 Credits
Formerly ESL 010
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.

ELA 020
ELA Level 2 • 1.0–18.0 Credits
Formerly ESL 020
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.

ELA 030
ELA Level 3 • 1.0–18.0 Credits
Formerly ESL 030
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.

ELA 040
ELA Level 4 • 1.0–18.0 Credits
Formerly ESL 040
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.

ELA 050
ELA Level 5 • 1.0–18.0 Credits
Formerly ESL 050
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.

ELA 053
ELA Writing Workshop • 4.0 Credits
Formerly ESL 053
This multi-level class is designed to teach non-native speakers of English the fundamentals of good English writing. Students do a variety of writing including dialogue journals and compositions. Students may choose to practice other forms such as resumes, applications, or longer essays. The class is open to ELA Level 3 students and above.

ELA 054
ELA Civics • 2.0 Credits
Formerly ESL 054
A study of U.S. history and government to prepare students who wish to pass a civics test for permanent residency.

ELA 056
ELA Computer Lab • 1.0–6.0 Credits
Formerly ESL 056
A course with a computer lab setting to help non-native speakers of English transition to college-level academic or vocational courses. Coursework is individualized to fit the needs of each student. The lab may be taken in conjunction with an ELA class or independently.

ELA 057
ELA Conversation • 4.0 Credits
Formerly ESL 057
This course is designed to develop ELA students' listening and speaking skills and to improve their social and intercultural communication skills.

ELA 059
ELA Technology • 0.9 Credits
Formerly ESL 059
This course is designed to provide instruction for students who need help with technology including computer skills, computer basics, and keyboarding skills. These skills will better prepare students for transition into post-secondary education.

ELA 060
ELA Level 6 • 1.0–18.0 Credits
Formerly ESL 060
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.

ELA 090
I-Best Studies • 1.0–10.0 Credits
Formerly ESL 090
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.

ELA 199
Special Studies • 1.0–7.0 Credits
Formerly ESL 199
A class used to explore new coursework.

Environmental Science

ENVS&101
Intro to Environmental Science w/Lab [M/S] • 5.0 Credits
Formerly ENVS 100
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.

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. **Prerequisite: grade of 2.0 or higher in MATH 095 or MATH 098 or MATH 070 or MATH 072 or satisfactory placement test score.**

ENVS 310
Environmental Issues [M/S] • 5.0 Credits
Basic concepts of ecology and environmental science are discussed and illustrated through lab experiences and then further elaborated through discussing environmental issues from a strategic business perspective. Discussions include how environmental pressures (e.g. sustainable development) and environmental problems (e.g. global warming, air pollution, waste-disposal), impact corporate mission, competitive strategy, technology choices, product development decisions, production processes, and corporate responsibility. **Prerequisite: meets the criteria for 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 • 3.0 Credits
Introduces the student to chronic disease as seen through the lens of the Exercise Science discipline. Students will examine possible employment opportunities addressing chronic disease using Exercise Science principles.

EXSC 201
Anatomical Kinesiology • 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. **Prerequisite: BIOL& 241.**

EXSC 202
Personal Training • 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.

EXSC 203
Exercise Science Praticum • 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. **Prerequisite: EXSC 202 or instructor permission.**

Fire Science

FS 100
Introduction to Fire Service • 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 experience as a firefighter.

FS 111
Fire Administration • 1.0–3.0 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.

FS 121
Fire Tactics • 1.0–3.0 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 • 1.0–3.0 Credits
A course designed to give the new inspector 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 • 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 • 3.0 Credits
An applied course covering special firefighting situations involving 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 193
Fire Science Independent Studies • 1.0–15.0 Credits
A class used to explore new coursework or for a specific topic of special interest.

FS 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

FS 211
Building Construction • 1.0–3.0 Credits
A course covering basic building construction, outlining the specific weaknesses of various constructions.

FS 222
Fire Tactics II • 3.0 Credits
This course includes planning, implementing, and evaluating basic and advanced fire tactics at the command officer level. **Prerequisite: FS 121.**

FS 231
Fire Protection Equipment • 1.0–3.0 Credits
Designed to give students a clear understanding of the principles and limitations of fire suppression and detection systems.

FS 241
Fire Investigation • 1.0–3.0 Credits
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 • 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 • 1.0–10.0 Credits
A class used to explore new coursework or for a specific topic of special interest.

FS 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

First Year Introduction

FYI 101
First Year Introduction • 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.

FYI 199
Special Studies • 1.0–2.0 Credits
A class used to explore new coursework.

French

FRCH&121
French I [H] • 5.0 Credits
Formerly FR 101
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. **Recommended prerequisite: successful completion of at least ENGL 099.**

FRCH&122
French II [H] • 5.0 Credits
Formerly FR 102
Introduction to the French language including conversational skills, reading, writing and grammar, and French culture including geography, customs, daily life, and heritage. **Prerequisite: FRCH& 121 or instructor permission.**

FRCH&123
French III [H] • 5.0 Credits
Formerly FR 103

Introduction to the French language including conversational skills, reading, writing and grammar, and French culture including geography, customs, daily life, and heritage. **Prerequisite: FRCH& 122 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 GE 101
Principles of mechanical drawing: geometric construction, orthographic projection, sectional views, auxiliary views, isometric and oblique drawings, dimensions, threads, fasteners, and lettering.

ENGR 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

ENGR&214
Statics • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or higher in MATH& 151 and either PHYS& 241/231 or PHYS& 221 with a grade of 2.0 or higher.**

ENGR&215
Dynamics • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or higher in ENGR& 214.**

ENGR 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

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.

GEO 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

GEO 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Geology

GEOL&101
Intro to Physical Geology w/ Lab [M/S] • 5.0 Credits
Formerly GEL 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. **Prerequisite: grade of 2.0 or better in MATH 040 or 084.**

GEOL&103
Historical Geology w/ Lab [M/S] • 5.0 Credits
Formerly GEL 203
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. **Prerequisite: GEOL& 101 or instructor permission.**

GEOL&110
Environmental Geology w/ Lab [M/S] • 5.0 Credits
Formerly GEL 211
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. **Prerequisite: GEOL& 101 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.

GEOL 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

GEOL 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

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 1611
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 1711
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.

HE 216
Health and Fitness for Life Lab [PE] • 1.0 Credit
Formerly HE 2151
Lab to be taken concurrently with HE 215.

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 • 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

HPHYS300
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.**

HPHYS305
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: grade of 2.5 or better in HPHYS 300 or instructor permission.**

HPHYS310
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.**

HPHYS315
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: grade of 2.5 or better in HPHYS 305 or instructor permission.**

HPHYS320
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: grade of 2.5 or better in HPHYS 305 or instructor permission.**

HPHYS350
Health Physics Seminar I • 1.0 Credit
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.**

HPHYS397
Special Studies Lecture • 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 gram and instructor approval.**

HPHYS398
Special Studies Lab • 1.0–5.0 Credits
A class used to explore new coursework or for a specific topic of special interest. **Preqrequisite: Acceptance into the Health Physics BASogram and instructor permission.**

HPHYS399
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 instructor permission.**

HPHYS400
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: grade of 2.5 or better in HPHYS 305 or instructor permission.**

HPHYS405
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: grade of 2.5 or better in HPHYS 305 or instructor permission.**

HPHYS410
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: grade of 2.5 or better in HPHYS 305 or instructor permission.**

HPHYS415
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: grade of 2.5 or better in HPHYS 305 or instructor permission.**

HPHYS420
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.**

HPHYS425
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.**

HPHYS450
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.**

Health Sciences

HSCI 147
Medical Terminology • 5.0 Credits
Formerly HIT 147, AOT 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 148
Spanish Medical Interpreting I • 5.0 Credits
The Spanish Medical Interpreting program is a sequential, three-quarter vocational certificate program, consisting of Spanish Medical Interpreting I, II, and III. The program prepares students for state or national medical interpreter certification and to enter the workforce as professional, ethical, and competent healthcare interpreters. Students are introduced to healthcare interpreting as a profession, concepts and relevant terminology in biomedicine, and given opportunities to develop foundational skills in healthcare interpreting. Topics include: International code of ethics and its application, language access laws, HIPAA, interpreting modalities and protocols, basic note-taking skills, self-evaluation, glossary building and intervention techniques. **Prerequisite: 1. Native-like proficiency in English and Spanish. 2. Applicants must pass an entrance test to be admitted. Recommended courses: HSCI 147, SPAN 205, 206, 207. Cross-listed with SPAN 281 (credit cannot be received for both courses).**

HSCI 149
Spanish Medical Interpreting II • 5.0 Credits
The Spanish Medical Interpreting program is a sequential, three-quarter vocational certificate program, consisting of Spanish Medical Interpreting I, II, and III. The program prepares students for state or national medical interpreter certification and to enter the workforce as professional, ethical, and competent healthcare interpreters. Students are introduced to healthcare interpreting as a profession, concepts and relevant terminology in biomedicine, and given opportunities to develop foundational skills in healthcare interpreting. This course builds on the knowledge and skills acquired in SPAN 281/HSCI 148. Topics include: National code of ethics and standards of practice, ethical decision-making, basic medical prefixes, roots and suffixes, note-taking and sight translation skills, interpreter positioning, language and communication dynamics, and the role of the interpreter in health equity. **Prerequisites: HSCI 148 or SPAN 281 with a 1.0 or higher. Cross-listed with SPAN 282 (credit cannot be received for both courses).**

HSCI 150
Spanish Medical Interpreting III • 5.0 Credits
The Spanish Medical Interpreting program is a sequential, three-quarter vocational certificate program, consisting of Spanish Medical Interpreting I, II, and III. The program prepares students for state or national medical interpreter certification and to enter the workforce as professional, ethical, and competent healthcare interpreters. Students are introduced to healthcare interpreting as a profession, concepts and relevant terminology in biomedicine, and given opportunities to develop foundational skills in healthcare interpreting. This course builds on the knowledge and skills acquired in Spanish Medical Interpreting II. This course provides students with guided interpreting practice. Topics include: State code of ethics, abbreviations in healthcare, the concepts of patient advocacy, communicative autonomy, cultural brokering and responsiveness, and business practices in the industry. **Prerequisites: HSCI 149 or SPAN 282 with a 1.0 or higher. Cross-listed with SPAN 283 (credit cannot be received for both courses).**

HSCI 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

HSCI 220
ACLS Initial • 2.0 Credits
Through the Advanced Cardiac Life Support course, healthcare providers enhance their skills in the treatment of the adult victim of a cardiac arrest or other cardiopulmonary emergencies. The emphasis is on the importance and integration of basic life support CPR with advanced cardiovascular life support and then importance of effective team interaction and communication during resuscitation. **Prerequisite: current healthcare provider BLS card and completion of prerequisite checklist.**

HSCI 221
ACLS Renewal • 0.9 Credits
This course is offered to provide an update to current ACLS providers and to renew ACLS provider status. **Prerequisite: current Healthcare Provider BLS card, current ACLS Provider Card, and completed ACLS precourse checklist.**

HSCI 222
ACLS Experienced Provider • 1.0 Credit
The ACLS Experienced Provider course is for seasoned ACLS providers who wish to renew their ACLS provider status. This course provides a stimulus for expert healthcare providers to identify areas in resuscitation that deal with special circumstances. **Prerequisite: current Healthcare Provider BLS card and current ACLS Provider Card.**

HSCI 223
ACLS Instructor Course • 1.0 Credit
One credit class to prepare individuals to become instructors in advanced cardiovascular life support. **Prerequisite: current ACLS provider. Recommendation of an ACLS Course Director or ACLS Regional Faculty member. Completion of AHA Core Instructor course prior to class.**

HSCI 230
PALS Initial • 2.0 Credits
The goal of the Pediatric Advanced Life Support (PALS) course is to aid the healthcare provider in developing the knowledge and skills necessary to provide emergency care for the pediatric population, and effectively manage critically ill infants and children. Skills taught include recognition and treatment of infants and children at risk for cardiopulmonary arrest; the systematic approach to pediatric assessment, effective respiratory management; defibrillation and synchronized cardioversion; intraosseous access and fluid bolus administration; and effective resuscitation team dynamics. **Prerequisite: current Healthcare Provider BLS card and completed PALS precourse checklist.**

HSCI 231
PALS Renewal • 0.9 Credits
This course is offered to provide an update to current PALS providers and to renew PALS provider status. **Prerequisite: current Healthcare**

Provider BLS card, current PALS Provider card, and completed PALS precourse checklist.

HSCI 233
PALS Instructor Course • 1.0 Credit
One credit class to prepare individuals to become instructors in pediatric advanced life support. **Prerequisite: current PALS Provider is required. Recommendation of PALS Course Director or PALS Regional Faculty Member. Completion of AHA Core Instructor course prior to class.**

HSCI 260
ALS/OTEP Advanced Airway Management • 0.0 Credits
This course provides the paramedic with specific training in the techniques for securing a patent airway in the critical medical or trauma patient. Included within the course is anatomy and physiology, recognition of existing and impending airway compromise, determination of appropriate advanced maneuvers, and deployment of various advanced airway skills and tools. **Prerequisite: current certification as paramedic.**

HSCI 261
ALS/OTEP Advanced Cardiac Life Support • 0.0 Credits
This course provides recertification to the Certified Paramedic in Advanced Cardiac Life Support. The course focuses on ACLS as intended to be taught by the American Heart Association. In addition, focus is also applied to the modalities of care for the cardiac patient in Benton/Franklin counties as per local protocol. **Prerequisite: current certification as paramedic.**

HSCI 262
ALS/OTEP Pediatric Advanced Life Support • 0.0 Credits
This course provides recertification to the Certified Paramedic in Pediatric Advanced Life Support. The course focuses on PALS as intended to be taught by the American Heart Association. In addition, focus is also applied to the modalities of care for the general pediatric patient in Benton/Franklin counties as per local protocol. **Prerequisite: current certification as paramedic.**

HSCI 263
48 Hour Paramedic Refresher • 4.5 Credits
This course is intended for the paramedic preparing for recertification of the National Registry of EMT-Paramedic, or attempting to regain this certification. The course covers all required hours and skills required of the National Registry 48 Hour Certificate. **Prerequisite: current certification as paramedic.**

HSCI 264
ILS/OTEP Refresher • 0.9 Credits
This course is intended for the EMT-Intermediate as a supplement to his/her EMT-B OTEP courses. This course focuses on the additional skills and requisite knowledge of the EMT-I in the areas of assessment, pharmacology, intravenous skills, and advanced airway management. **Prerequisite: current certification as an EMT- Intermediate.**

HSCI 265
Combi-Tube Endorsement Course • 0.9 Credits
This course is intended for EMT-Basic who desires the additional endorsement to his/her certification for insertion of a dual lumen advanced airway device, (specifically Combi-Tube). **Prerequisite: current certification as an EMT-Basic.**

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.

Healthcare Administration

HCAD 310
Healthcare Operations Management • 5.0 Credits
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 310 and AMGT 310. Students completing HCAD 310 may not receive graduation credit for AG 310 or AMGT 310. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

HCAD 315
Healthcare Informatics/Information Technology • 5.0 Credits
This course focuses on the information resource of management. The course promotes proficiency with technology and its essential business applications. Students build proficiency in this course through planning for, and creation of business technology with coding of an algorithm, establishing and managing customer contact by leveraging publication templates and by creating an online presence with accompanying use of social media and search engine optimization. This class is cross-listed with AG 340, AMGT 340, and NRS 315. Students completing HCAD 315 may not receive graduation credit for AG 340, AMGT 340, or NRS 315. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN program, completion of a two-uear degree or equivalent, or instructor approval.**

HCAD 330
Legal Issues in Healthcare • 5.0 Credits
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 business start-up and intellectual property. This class is cross-listed with AMGT 330. Students completing HCAD 330 may not receive graduation credit for AMGT 330. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for accceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

HCAD 420
Human Resources Management & Policy • 5.0 Credits
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 420. Students completing HCAD 420 may not receive graduation credit for AMGT 420. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

HCAD 480
Healthcare Administration Capstone • 5.0 Credits
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: AMGT 300, AG or AMGT or HCAD 310, AMGT 320, AMGT or HCAD 330, and AMGT 400. Additionally, you must have taken or be concurrently taking AG or AMGT 340 or HCAD or NRS 315, AMGT 350, and AG or AMGT 430. All prerequisites must be passed with a 2.0 or better.**

History

HIST 107
Chicano History [S/B] • 5.0 Credits
Formerly HIS 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
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
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
Formerly HIS 111
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
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
Formerly HIS 113
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
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. **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
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
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
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

Survey of American history from the colonial period through the Civil War. Emphasis is placed on Native Americans, early colonial development, the American Revolution, the building of the nation, territorial expansion, slavery, and the Civil War.

HIST&147
U.S. History II [S/B] • 5.0 Credits
Formerly HIST&137, HIS 105
Survey of U.S. history from the Civil War through World War II. Emphasis is placed on Reconstruction, industrialization, immigration, American foreign policy, Progressive Reform, the twenties, the Great Depression, the New Deal, and World War II.

HIST&148
U.S. History III [S/B] • 5.0 Credits
Survey of U.S. History from World War II to the present. Emphasis is placed on the Cold War era, Vietnam, Civil Rights, the liberal consensus, the rise of modern conservatism, minority relations, the 1990s, and post 9-11 American society.

HIST 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

HIST&214
Pacific Northwest History • 5.0 Credits
Formerly HIS 251
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 233
War in History [S/B] • 5.0 Credits
Formerly HIS 233
A study of the history of warfare in the Western world from the Ancient period to the present. Students are introduced to the study of war in terms of its social, political, economic, technological, and cultural roots and its effects on these various fields.

HIST 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Horticulture

HORT 202
Cultivated Plants w/ Lab • 5.0 Credits
The goal of the course is to introduce students to the morphology, anatomy, growth, and development of agronomic and horticultural crops.

HORT 203
Crop Growth & Development w/ Lab • 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.

HORT 235
Greenhouse Production and Management w/ Lab • 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.

HORT 242
Hydroponic Technology w/ Lab • 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.

HORT 251
Plant Propagation w/ Lab • 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.

Hospitality

HSP 101
Front Desk Representative • 2.0 Credits
This course is an introduction to the purpose and tasks of a front desk representative. It includes the identification of the various equipment and systems that front desk representatives use in the course of performing their duties. Successful completion of this course results in a certified front desk representative credential.

HSP 102
Guestroom Attendant • 2.0 Credits
This course is an introduction to the purpose and tasks of a guest room attendant. It includes the standards that are required and the role of keeping property secure. Successful completion of this course results in a certified guestroom attendant credential.

HSP 103
Restaurant Server • 2.0 Credits
This course is an introduction to the purpose and tasks of a restaurant server and how they work together with others to meet superior performance standards. Successful completion of this course results in a certified restaurant server credential.

HSP 104
Maintenance Employee • 2.0 Credits
This course is an introduction to the duties and primary functions of a maintenance employee and how they work together with others to meet superior performance standards. Successful completion of this course results in a certified maintenance employee credential.

HSP 105
Kitchen Cook • 2.0 Credits
This course is an introduction that describes the duties and primary functions of a kitchen cook and how they work together with others

to meet superior performance standards. Successful completion of this course results in a certified kitchen cook credential.

HSP 106
Breakfast Attendant • 2.0 Credits
This is an introduction to the duties and primary functions of a breakfast attendant and how they work together with others to meet superior performance standards. Successful completion of this course results in a certified breakfast attendant credential.

HSP 107
Guest Service Professional • 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 • 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.

Human Development

HDEV 100
College Success • 3.0 Credits
Formerly EDUC 100, ED 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.

HDEV 101
Creating Academic Success • 4.0 Credits
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 • 3.0 Credits
Formerly HDEV 1994
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. Recommended: computer skills and the ability to navigate online.**

HDEV 110
Academic CPR • 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.

HDEV 120
Career Experience • 2.0 Credits
Formerly HDEV 1991
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.

HDEV 124
Dependable Strengths • 1.0 Credit
Formerly HDEV 1992
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 • 1.0 Credit
Formerly HDEV 1993
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 • 3.0 Credits
Formerly ED 135, EDUC 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.

HDEV 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Human Geography

GEOG&200
Human Geography [S/B] • 5.0 Credits
Formerly GEO 150
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 • 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.

Industrial Hygiene Technology

IHT 100
OSHA-10 • 1.0 Credit
Provides the Occupational Safety and Health Administration (OSHA) 10-hour safety awareness training certification.

Industrial Technology

INT 101
Forklift Operations • 1.0 Credit
This course provides training and preparation for powered forklift and pallet jack equipment operation in warehouse and industrial settings.

INT 103
Basic HVAC • 3.0 Credits
This course provides a basic understanding of the installation, operation, service, maintenance, and troubleshooting of various types of heating, ventilation, air conditioning, and refrigeration systems. **Prerequisite: Instructor permission.**

INT 105
Precision Measurement • 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 120
Production Technician • 12.0 Credits
This course provides an overview of five critical work functions within industry production: safety, quality practices and measurement, manufacturing processes and production, and maintenance awareness. **Prerequisite: instructor permission.**

INT 130
Logistics Technician • 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. **Prerequisite: instructor permission.**

INT 250
Principles of Troubleshooting • 4.0 Credits
This course is designed to teach today's technicians a logical approach to solving problems. The course consists of both lecture and hands-on practice using computer simulations of industrial systems and related test equipment. Using the Path of Influence and Four-Step process along with the troubleshooting simulation, the technician analyzes the fault and chooses maintenance actions such as continuity tests, bench checking, and swapping that might correct the problem. The logic used is evaluated as well as the time and expenses incurred by the technician to solve the problem. **Prerequisite: any one of the following: AMT 120, ELT 111, ENT 238, equivalent coursework, or instructor permission.**

INT 251
Troubleshooting for Technicians • 2.0 Credits
This course is designed to supplement experienced technicians' knowledge of troubleshooting using a logical approach to solving problems. The course consists of using computer simulations of industrial systems and related test equipment. Using the Path of Influence and Four-Step process along with the troubleshooting simulations, the technician analyzes the fault and chooses maintenance actions such as continuity tests, bench checking, and swapping that might correct the problem. The logic used is evaluated as well as the time and expenses incurred by the technician to solve the problem. **Prerequisite: any one of the following: AMT 120, ELT 111, ENT 238, equivalent coursework, or instructor permission.**

Instrumentation and Control

IC 201
Instrumentation I • 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: ELT l54; NT 170 recommended.**

IC 202
Instrumentation II • 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: IC 201.**

IC 203
Instrumentation III • 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: IC 202.**

IC 230
PLC Programming & Computer Interfacing • 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: ELT 171.**

IC 250
Instrumentation & Control for Operators • 5.0 Credits
Basic introduction to instrumentation and control processes for operators. Topics include basic control circuits, pneumatic devices, sensors, and hydraulic controls. **Prerequisite: NT 111 and ELT 111 or ELT 124.**

IC 260
Process Instrumentation • 5.0 Credits
Topics build upon basic instrumentation knowledge and skills in previous course. Focus is on developing the knowledge and skills related to valve operations and components associated with strainers and filters. **Prerequisite: IC 250.**

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
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 HIST&220, HIS 106
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 220
Globalization [S/B] • 5.0 Credits
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. 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: meets the criteria for 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: Meets the criteria for 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 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. **Recommended prerequisite: successful completion of at least ENGL 099.**

JAPN&122
Japanese II [H] • 5.0 Credits
Formerly 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: JAPN& 121 or instructor permission.**

JAPN&123
Japanese III [H] • 5.0 Credits
Formerly 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: JAPN& 122 or instructor permission.**

JAPN&221
Japanese IV [H] • 5.0 Credits
Formerly 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: JAPN& 123 or instructor permission.**

JAPN&222
Japanese V [H] • 5.0 Credits
Formerly 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: JAPN& 221 or instructor permission.**

JAPN&223
Japanese VI [H] • 5.0 Credits
Formerly 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: JAPN& 222 or instructor permission.**

JAPN 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Maintenance

MNT 110
Fundamentals of Maintenance • 7.0 Credits
Formerly AGET 110
Introduces skills and knowledge required by all service technicians including: precision measurement, environmental and safety regulation compliance; safety and personal protection equipment, fastener identification; hand and power tool identification, use and safety; lifting and blocking, torque wrench use; tapping, threading and thread inserts. Students demonstrate the ability to follow written instruction, complete business forms, and perform basic math skills. Includes a review of the student rights and responsibilities. **Prerequisite: RDG 099 and ENGL 099 and either MATH 050 or 084 with a grade of 2.0 or better, or MATH 084 with a grade of P if taken before spring 2016, or satisfactory placement test score.**

MNT 111
Intro to Machine Operations • 7.0 Credits
Formerly MOP 111
This course is designed to give students skills using measuring instruments and the concepts of machining with a metal lathe.

MNT 210
Hydraulic and Pneumatic Systems • 7.0 Credits
Formerly AGET 210
This course is designed to teach the systems operation and the testing, adjusting, maintenance, and repair procedures for pneumatic and hydraulic systems including load sensing pressure compensated systems, electro-hydraulic systems, and hydrostatic systems. Students identify system components and discuss their operation and application. Students identify different systems, trace the flow through the systems, and state the systems operation and application. Students use onboard diagnostic systems, T adapter kits, digital volt/ohm meters, flow meters, pressure gauges, and manufacturer specific tools to diagnose hydraulic and pneumatic system malfunctions. **Prerequisite: instructor permission.**

Manufacturing Technology

MT 102
SolidWorks(R) I • 5.0 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. **Prerequisite: BPR 105 or 110 or equivalent, and CA 100 or CS 101, or instructor permission.**

MT 111
Basic Machine Technology I • 5.0 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.

MT 112
Basic Machine Technology I Lab • 1.0–9.0 Credits
Formerly MT 1111
Work on projects using the lathe to practice the concepts taught in the class.

MT 121
Basic Machine Technology II • 5.0 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: MT 111 or instructor permission.**

MT 122
Basic Machine Technology II Lab • 1.0–9.0 Credits
Formerly MT 1211
Work on projects using the lathe and milling machine to practice the concepts taught in class. **Prerequisite: MT 112 or instructor permission.**

MT 131
Basic Machine Technology III • 5.0 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: successful completion of MT 102, MT 111/MT 112, and MT 121/MT 122 with a 2.0 or higher, or instructor permission.**

MT 132
Basic Machine Technology III Lab • 1.0–9.0 Credits
Formerly MT 1311
Work on projects using the lathe and milling machine to practice the concepts taught in class. **Prerequisite: MT 122 or instructor permission.**

MT 193
Independent Study • 1.0–15.0 Credits
A class used to explore new coursework or for a specific topic of special interest.

MT 201
Introduction to Engineering Material Science • 5.0 Credits
As an introductory course, the goal is to learn the fundamental nature of engineered materials, as applied to a Machine Technology Certificate or as a qualifying transfer class to bachelor program at a four-year institution. Instruction begins with the basics of how materials are organized on the atomic, microscopic, and macroscopic levels, how and why these produce a finished project. Though this course is more practical to the common processes used today, it also introduces new trends in materials manufacturing for sustainability, automation, and some of the recent developments in materials science using polymers, composites, ceramics, and advanced metal alloys. Materials science and engineering is an exciting field and an understanding of it is vital for technologists and engineers alike.

MT 202
SolidWorks(R) II • 5.0 Credits
This course prepares students to take the Certified SolidWorks(R) Associate Exam. **Prerequisite: MT 102 or instructor permission.**

MT 211
Advanced Machine Technology I • 5.0 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: MT 131 or instructor permission.**

MT 212
Advanced Machine Technology I Lab • 1.0–9.0 Credits
Formerly MT 2111
Work on projects using the lathe and milling machine to practice the concepts taught in class. **Prerequisite: MT 132 or instructor permission.**

MT 221
Advanced Machine Technology II • 5.0 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: MT 211 or instructor permission.**

MT 222
Advanced Machine Technology II Lab • 9.0 Credits
Formerly MT 2211
Work on projects using the CNC to practice the concepts taught in class. **Prerequisite: MT 212 or instructor permission.**

MT 231
Advanced Machine Technology III • 5.0 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: MT 221 or instructor permission.**

MT 232
Advanced Machine Technology III Lab • 1.0–9.0 Credits
Formerly MT 2311
Work on projects using SolidWorks(R), CAM system, and CNC milling machine to practice the concepts taught in class. **Prerequisite: MT 222 or instructor permission.**

Mathematics

MATH 040
Pre-Algebra • 5.0 Credits
This introductory course includes computations with integers, fractions, and decimals, prime factorization, algebraic symbols and operations including integer exponents, square roots and inequalities, order of operations, percent, ratios and proportions, translating sentences into mathematical expressions, problem solving strategies, properties of standard geometric objects, and linear equations.

MATH 048
Math for Technical Applications Support • 2.0 Credits
Designed as a corequisite course for any student taking MATH 100 that does not meet the prerequisite requirements. This course will run concurrently with MATH 100 and provide the tools and concepts necessary for students to participate in MATH 100. Topics include whole numbers, decimals, fractions, basic proportions and percentages, real numbers, and basic algebra concepts. **Prerequisite: concurrent enrollment in MATH 100.**

MATH 050
Quantitative Literacy • 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. **Prerequisite: grade of 2.0 or better in MATH 040, 084, 096 or 097 or STAT 091 or satisfactory placement test score.**

MATH 060
Algebra I • 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. **Prerequisite: grade of 2.5 or better in MATH 040 or grade of 2.0 or better in MATH 084 or satisfactory placement test score.**

MATH 062
Algebra I Supported • 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. **Prerequisite: grade of 2.0 or better in MATH 040 or MATH 084 or satisfactory placement test score.**

MATH 070
Algebra II • 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. **Prerequisite: grade of 2.5 or better in MATH 060 or MATH 062 or grade of 2.0 or better in MATH 097 or satisfactory placement test score.**

MATH 072
Algebra II Supported • 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. **Prerequisite: grade of 2.0 or better in MATH 060 or MATH 062 or MATH 096 or MATH 097 or satisfactory placement test score.**

MATH 092
Special Topics in Mathematics • 1.0–10.0 Credits
This course is designed to give special mathematical topics to those students whose needs are not met with the existing curriculum.

MATH 100
Algebraic Tools for Vocational Application • 5.0 Credits
Formerly 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. **Prerequisite: appropriate placement or concurrent enrollment in MATH 048.**

MATH 106
Business Mathematics • 5.0 Credits
Formerly 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. **Prerequisite: MATH 084 with a grade of 2.0 or better, or MATH 084 with a grade of P if taken before spring 2016, or MATH 050 with a grade of 2.0 or better or satisfactory placement test score.**

MATH&107
Math in Society [M/S] [Q/SR] • 5.0 Credits
Formerly MTH 130, MTH 110
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. **Prerequisite: MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 (or MATH 072) with a grade of 2.0 or better or satisfactory placement test score.**

MATH 108
Math for Early Childhood Education • 5.0 Credits
Formerly 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. **Prerequisite: MATH 084 with a grade of 2.0 or better, or MATH 084 with a grade of P if taken before spring 2016, or MATH 040 with a grade of 2.0 or better or satisfactory placement test score.**

MATH 113
Geometry/Trigonometry [M/S] • 5.0 Credits
Formerly MTH 113, MTH 103
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. **Prerequisite: MATH 095 or MATH 098 or MATH 070 (or MATH 072) with a grade of 2.0 or better or satisfactory test placement.**

MATH&141
Precalculus I [M/S] [Q/SR] • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in MATH 070 or MATH 072 or MATH 095 or MATH 098 or satisfactory placement test score.**

MATH&142
Precalculus II [M/S] [Q/SR] • 5.0 Credits
Formerly MTH 155, MTH 105
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. **Prerequisite: grade of 2.0 or better in MATH& 141, or appropriate placement. Students completing MATH& 142 may not receive graduation credit for MATH& 144.**

MATH&144
Precalculus I & II [M/S] [Q/SR] • 5.0 Credits
Formerly MTH 107, MTH 157
Precalculus I & II is a condensed, accelerated combination of Precalculus I and Precalculus II. Selected topics from Precalculus I and Precalculus II are covered in one quarter, allowing the better prepared student to complete the precalculus preparation in one quarter rather than two. The

topics include polynomial, rational, logarithmic, and circular functions. Also, analytic geometry, complex numbers, vectors, and sequences and series. **Prerequisite: appropriate placement or instructor permission. Students completing MATH& 144 may not receive graduation credit for MATH& 141 and/or MATH& 142.**

MATH&146
Introduction to Stats [M/S] [Q/SR] • 5.0 Credits
Formerly 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. **Prerequisite: STAT 092 or MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 (or MATH 072) with a grade of 2.0 or better or satisfactory placement test score.**

MATH 147
Finite Math [M/S] [Q/SR] • 5.0 Credits
Formerly 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. **Prerequisite: MATH 095 or MATH 098 or MATH 070 (or MATH 072) with a grade of 2.0 or better or satisfactory placement test score.**

MATH&148
Business Calculus [M/S] [Q/SR] • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in MATH 070 or MATH 072 or MATH 147 or satisfactory placement test score. Suggested prerequisite: MATH& 141.**

MATH&151
Calculus I [M/S] [Q/SR] • 5.0 Credits
Formerly MTH 231, MTH 201
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. **Prerequisite: grade of 2.0 or better in MATH& 141 and MATH& 142 or MATH& 144, or appropriate placement.**

MATH&152
Calculus II [M/S] [Q/SR] • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in MATH& 151 or equivalent.**

MATH&153
Calculus III [M/S] [Q/SR] • 5.0 Credits
Formerly MTH 233, MTH 203
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. **Prerequisite: grade of 2.0 or better in MATH& 152 or equivalent.**

MATH&171
Math for Elementary Education I [M/S] • 5.0 Credits
Formerly MATH 121
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. **Prerequisite: a grade of 2.0 or better in MATH 070 or MATH 072 or MATH 095 or MATH 098 or satisfactory placement test score.**

MATH&172
Math for Elementary Education II [M/S] [Q/SR] • 5.0 Credits
Formerly MATH 122
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. **Prerequisite: grade of 2.0 or better in MATH& 171.**

MATH&173
Math for Elementary Education III [M/S] [Q/SR] • 5.0 Credits
Formerly MATH 123
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 (previously MATH 121) has been successfully completed. **Prerequisite: grade of 2.0 or better in MATH& 171.**

MATH 199
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

MATH 243
Linear Algebra [M/S] [Q/SR] • 5.0 Credits
Formerly MTH 243, MTH 213
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. **Prerequisite: grade of 2.0 or better in MATH& 151.**

MATH 246
Discrete Structures [M/S] [Q/SR] • 5.0 Credits
Formerly MTH 216, MTH 246
An introduction to discrete mathematics, trees, graphs, elementary logic, and combinatorics with applications to computer science. **Prerequisite: grade of 2.0 or better in MATH& 141. 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 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. **Prerequisite: grade of 2.0 or better in MATH& 153 or equivalent.**

MATH 255
Differential Equations [M/S] [Q/SR] • 5.0 Credits
Formerly MTH 254
Beginning course in differential equations. Topics include first order methods, linear differential operators, Laplace transforms, series methods, and numerical techniques. **Prerequisite: MATH& 153 or equivalent. MATH& 153 may be taken concurrently.**

MATH 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Medical Assistant

MA 111
Pharmacology I • 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 • 4.0 Credits
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. This course is cross-listed with MRHI 114. Students completing MA 114 may not receive graduation credit for MRHI 114. **Prerequisite: HSCI 147 and required admission into the Medical Assistant program.**

MA 115
Clinical Procedures Theory I • 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: MA 111, 114, and 140. This course to be taken concurrently with MA 116 (lab course).**

MA 116
Clinical Procedures Lab I • 4.0 Credits
Formerly MA 1151
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. **Prerequisite: MA 111, 114, and 140. This course to be taken concurrently with MA 115 (theory course).**

MA 140
Admin. Medical Assistant Office Procedures I • 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. **Prerequisite: acceptance into the Medical Assisting program.**

MA 141
Career Development for Medical Assistants • 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: MA 115, 116, 211, and 214.**

MA 211
Pharmacology II • 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: MA 111, 114, and 140.**

MA 214
Human Body Structure, Function, and Diseases II • 4.0 Credits
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. This course is cross-listed with MRHI 214. Students completing MA 214 may not receive graduation credit for MRHI 214. **Prerequisite: MA 111, 114, and 140.**

MA 215
Clinical Procedures Theory II • 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: MA 115, 116, 211 , and 214. This course to be taken concurrently with MA 216 (lab course).**

MA 216
Clinical Procedures Lab II • 4.0 Credits
Formerly MA 2151
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. **Prerequisite: MA 115, 116, 211, and 214. This course to be taken concurrently with MA 215 (theory course).**

MA 240
Admin. Medical Assistant Office Procedures II • 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: MA 115, 116, 211, and 214.**

MA 241
Externship Seminar • 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. **Prerequisite: successful completion of all other Medical Assistant courses with a GPA of 2.0 or higher.**

MA 242
Externship • 6.0 Credits
Formerly MA 2413
This class provides an opportunity to apply the theory learned in the classroom setting to a healthcare setting through practical, hands-on experience. **Prerequisite: successful completion of all other Medical Assistant courses with a GPA of 2.0 or higher.**

Medical Imaging Technology

IMAGE100
Bone Densitometry • 4.0 Credits
An in-depth analysis of bone densitometry positioning, exposure techniques, quality control, film critiquing, and radiation safety. **Prerequisite: currently enrolled in an approved Radiologic Technology program or ARRT Certified Radiologic Technologist.**

IMAGE110
Bone Densitometry Clinical • 4.0 Credits
Students are assigned to a bone densitometry department for 132 hours to satisfy clinical competency requirements of the ARRT for eligibility to sit for the ARRT advanced-level exam in bone densitometry. **Prerequisite: currently enrolled in an approved Radiologic Technology program or ARRT Certified Radiologic Technologist.**

IMAGE225
Mammography • 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. **Prerequisite: currently enrolled in an approved Radiologic Technology program or ARRT Certified Radiologic Technologist.**

IMAGE229
Mammography Clinical • 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. **Prerequisite: currently enrolled in an approved Radiologic Technology program or an ARRT Certified Radiologic Technologist.**

IMAGE250
Cross Sectional Anatomy • 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.**

IMAGE251
Advanced Sectional Anatomy • 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.**

IMAGE265
Body Pathophysiology • 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.**

IMAGE266
Neuropathophysiology • 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.**

IMAGE270
CT Clinical Practicum I • 1.0–12.0 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. **Prerequisite: currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.**

IMAGE271
MRI Clinical Practicum • 1.0–12.0 Credits
Provides hands-on experience in the clinical setting. Students perform designated tasks associated with MRI scanning and procedures under direct and indirect supervision. **Prerequisite: currently enrolled in an approved Radiologic Technology program, ARRT Certified Radiologic Technologist, ARRT Certified Radiation Therapist, or NMTCB Certified Nuclear Medicine Technologist.**

IMAGE280
CT Instrumentation • 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.**

IMAGE281
MRI Instrumentation and Procedures • 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 018
Community Band • 0.0 Credits
Instruction and performance of standard and contemporary wind literature. This is a community education course; it is non-credit bearing and is for community members only. This course does not apply toward degrees and certificates.

MUSC 025
Community Orchestra • 0.0 Credits
Introduction in and performance of standard orchestral literature.This is a community education course; it is non-credit bearing and is for community members only. This course does not apply toward degrees and certificates.

MUSC 081
Community Chorus • 0.0 Credits
Instruction and performance of standard choral literature from a variety of historical periods and cultures. Performances required on and off campus. This is a community education course; it is non-credit bearing and is for community members only. This course does not apply toward degrees and certificates.

MUSC 100
Music Fundamentals • 3.0 Credits
Formerly MUS 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
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
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 • 1.0–2.0 Credits
Formerly MUS 118
Instruction and performance of standard and contemporary wind literature. In all performing groups, a maximum of six elective credits may be applied to an AA degree.

MUSC 122
Applied Music • 1.0 Credit
Formerly MUS 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.

MUSC 123
Applied Music • 1.0 Credit
Formerly MUS 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. **Prerequisite: instructor permission.**

MUSC 124
Applied Music • 1.0 Credit
Formerly MUS 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.

MUSC 125
Orchestra • 1.0 Credit
Formerly MUS 125
Introduction in and performance of standard orchestral literature. In all performing groups, a maximum of six elective credits can be applied to an AA degree. **Prerequisite: orchestra instrument background and instructor permission.**

MUSC 134
Piano Class • 2.0 Credits
Formerly MUS 134
Group piano instruction for all students interested in beginning piano. Students may take more than one quarter.

MUSC 135
Piano Class • 2.0 Credits
Formerly MUS 135
Group piano instruction for music majors and minors who cannot meet entrance requirements in piano and for all students interested in beginning piano.

MUSC 136
Piano Class • 2.0 Credits
Formerly MUS 136
Group piano instruction for music majors and minors who cannot meet entrance requirements in piano and for all students interested in beginning piano.

MUSC 137
Jazz Band • 1.0–3.0 Credits
Formerly MUS 137
Study, rehearse, and perform jazz, commercial, and big band literature. Performances required on and off campus. A maximum of six elective credits from this course can be applied to an AA degree. **Prerequisite: audition and/or instructor permission.**

MUSC 138
Voice Class • 2.0 Credits
Formerly MUS 141
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
Emphasis on vocal ensemble literature. May include different types of ensembles/styles according to available voicing. **Prerequisite: instructor permission.**

MUSC 140
Vocal Jazz • 1.0–3.0 Credits
Formerly MUS 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. In all performing groups a maximum of six elective credits from this course can be applied to an AA degree. **Prerequisite: audition and/or instructor permission.**

MUSC&141
Music Theory I • 5.0 Credits
Formerly MUS 101
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
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: MUSC& 141.**

MUSC&143
Music Theory III • 5.0 Credits
Formerly MUS 103
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: MUSC& 142.**

MUSC 147
Instrument Ensemble • 1.0 Credit
Formerly MUS 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.

MUSC 171
Ear Training Fundamentals • 1.0 Credit
Formerly MUS 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
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
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 • 1.0–3.0 Credits
Formerly MUS 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. A maximum of six credits from this course 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 2152
Individual study for advanced students relating to conducting. **Prerequisite: instructor permission and successfully completed classes in area of individual study and/or demonstrated proficiency in area of individual study.**

MUSC 217
Studio Problems - Composition • 3.0 Credits
Formerly MUSC 2153
Individual study for advanced students relating to composition. **Prerequisite: instructor permission and successfully completed classes in area of individual study and/or demonstrated proficiency in area of individual study.**

MUSC 218
Studio Problems - Performance • 3.0 Credits
Formerly MUSC 2154
Individual study for advanced students relating to performance. **Prerequisite: instructor permission and successfully completed classes in area of individual study and/or demonstrated proficiency in area of individual study.**

MUSC 225
Applied Music • 2.0 Credits
Formerly MUS 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. **Prerequisite: instructor permission.**

MUSC 227
Applied Music • 2.0 Credits
Formerly MUS 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
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
Melody harmonization, harmonic dictation, chromatic harmony, advanced modulation, 20th century techniques, and oral composition. Offered fall quarter only. **Prerequisite: MUSC& 143. This course should be taken concurrently with MUSC 274.**

MUSC&242
Music Theory V • 5.0 Credits
Formerly MUS 205
Melody harmonization, harmonic dictation, chromatic harmony, advanced modulation, 20th century techniques, and oral composition. Offered winter quarter only. **Prerequisite: MUSC& 241.**

MUSC&243
Music Theory VI • 5.0 Credits
Formerly MUS 206
Melody harmonization, harmonic dictation, chromatic harmony, advanced modulation, 20th century techniques, and oral composition. Offered spring quarter only. **Prerequisite: MUSC& 242.**

MUSC 244
Advanced Vocal Jazz • 1.0–3.0 Credits
Formerly MUS 242
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. In all performing groups, a maximum of six elective credits from this course can be applied to an AA degree. **Prerequisite: audition and/or instructor permission.**

MUSC 274
Advanced Ear Training • 1.0 Credit
Formerly MUS 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
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
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 • 1.0–3.0 Credits
Formerly MUS 281
Instruction and performance of advanced choral literature from a variety of historical periods and cultures. Performances required on and off campus. A maximum of six credits from this course can be applied to an AA degree. **Prerequisite: instructor permission.**

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 • 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: NT 111.**

NOP 221
Advanced Operational Systems • 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: ELT 111 or ELT 124, and NT 121 or NT 122.**

NOP 231
Advanced Facility Components • 5.0 Credits
This course provides an introduction to steam systems with a focus on steam traps, steam turbines, heat exchangers, and related facility components. **Prerequisite: NT 111 or instructor permission.**

NOP 241
Chemical & Water Treatment Systems • 5.0 Credits
Introduction to chemical and water treatment systems with a focus on chemical safety and reactions, ion exchange, UV oxidation, and permitting. **Prerequisite: CHEM& 140 with a 2.0 grade or higher.**

NOP 251
Advanced Thermodynamics and Heat Transfer • 4.0 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: NT 170 or instructor permission.**

Nuclear Medicine Technology

NMTEC199
Introduction to Nuclear Medicine Technology • 2.0 Credits
This course introduces the student to the Bellevue College Nuclear Medicine Technology program. It includes three days of clinical orientation in a nuclear medicine department. We'll create a shared understanding of the basics of nuclear medicine practice, examine active learning techniques, and develop cohesiveness as a group. **Prerequisite: acceptance into program or instructor permission.**

NMTEC200
Applied Anatomy & Physiology • 1.0 Credit
Studies human anatomy and physiology as they apply to nuclear medicine imaging. Specific organ systems covered include skeletal, circulatory, cardiac, pulmonary, gastrointestinal, immune, excretory, endocrine, and central nervous systems. **Prerequisite: acceptance into program.**

NMTEC201
Basic Nuclear Medicine Science • 3.0 Credits
Presents basic science required for nuclear medicine. Topics include types of radiation, half-life and radioactive decay, interactions of radiation, detection instruments, statistics of radiation counting, basic radiation protection, and introduction to imaging process. **Prerequisite: acceptance into program.**

NMTEC202
Instrumentation • 2.0 Credits
Examines the function and use of the nuclear medicine gamma camera. Topics include basic electronics, collimators, digital cameras, online correction systems, and modifications required for tomographic studies. Students learn quality control and troubleshooting. **Prerequisite: acceptance into program.**

NMTEC203
Computers in Nuclear Medicine • 3.0 Credits
Introduces the use of computers in nuclear medicine, emphasizing analysis of static, dynamic, and tomographic images. **Prerequisite: acceptance into program.**

NMTEC210
Radiopharmacy • 1.0 Credit
Studies all commonly used nuclear medicine pharmaceuticals, their preparation, indications for use, dosages, and contraindications. P**rerequisite: acceptance into program.**

NMTEC211
Nursing Procedures • 1.0 Credit
Presents nursing procedures relating to nuclear medicine. Topics include patient assessment, oxygen administration, infection control, intravenous drug administration, vasovagal and anaphylactic reactions, basic pharmacology, sedation, medical and legal issues, cardiac physiology, and electrocardiography. **Prerequisite: acceptance into program.**

NMTEC212
Position Emission Tomography • 2.0 Credits
Covers all aspects of positron emission tomography (PET), including basic principles, instrumentation, PET/CT imaging and quality control, quantitation of radiopharmaceutical uptake, clinical indications for PET imaging, biochemistry of fluorodeoxyglucose (FDG), clinical aspects of FDG imaging, new PET radiopharmaceuticals, and issues relating to reimbursement for PET scans. **Prerequisite: acceptance into program.**

NMTEC229
Introduction to Clinical Education • 3.0 Credits
Provides an introduction to the practice of nuclear medicine with an emphasis on the operation of a gamma camera, basic radiopharmacy and radiation safety principles, and patient care procedures. **Prerequisite: acceptance into program.**

NMTEC230
Clinical Education I • 10.0 Credits
First in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Topics including imaging, patient care, radiopharmacy, camera quality control, and computer analysis. Students are expected to gain proficiency according to defined objectives. **Prerequisite: acceptance into program.**

NMTEC231
Clinical Education II • 10.0 Credits
Second in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Topics include imaging, patient care, radiopharmacy, camera quality control, and computer analysis. Students are expected to gain proficiency according to defined objectives. **Prerequisite: acceptance into program.**

NMTEC232
Clinical Education III • 10.0 Credits
Third in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Topics include imaging, patient care, radiopharmacy, camera quality control, and computer analysis. Students are expected to gain proficiency according to defined objectives. **Prerequisite: acceptance into program.**

NMTEC233
Clinical Education IV • 13.0 Credits
Fourth in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Topics include imaging, patient care, radiopharmacy, camera quality control, and computer analysis. Students are expected to gain proficiency according to defined objectives. **Prerequisite: acceptance into program.**

NMTEC234
Clinical Education V • 13.0 Credits
Fifth in a five-course sequence of supervised clinical instruction in nuclear medicine technology. Topics include radiopharmacy, positron emission tomography, nuclear cardiology, and pediatrics. **Prerequisite: acceptance into program.**

NMTEC240
Radiation Safety • 1.0 Credit
Covers principles and practices for radiation safety. Topics include calculation of doses absorbed from procedures, personnel monitoring, handling and disposal of radioactive materials, and licensing of a nuclear medicine department. **Prerequisite: acceptance into program.**

NMTEC241
Radiation Biology • 1.0 Credit
Discusses the potentially harmful effects of radiation on humans. Topics include the basic chemistry of radiation interactions in living cells, the effects of extensive radiation exposure, and the potential long-term effects of accumulated radiation damage. **Prerequisite: acceptance into program.**

NMTEC250
Sectional Anatomy for Nuclear Medicine • 3.0 Credits
Presents sectional anatomy of the body, including a brief introduction to the following imaging modalities: CT, MRI, angiography, and ultrasound. Main emphasis is on identifying organs of the head, neck, chest, abdomen, and pelvis on CT and MR images. **Prerequisite: acceptance into program.**

NMTEC260
Clinical Nuclear Medicine I • 1.0 Credit
Presents nuclear medicine from the technologist's standpoint, emphasizing the technical aspects and pitfalls of nuclear medicine procedures. NMTEC 260 lectures are coordinated with NMTEC 200. **Prerequisite: acceptance into program.**

NMTEC261
Clinical Nuclear Medicine II • 1.0 Credit
Presents nuclear medicine from the physician's standpoint, emphasizing the diagnosis of disease and ways in which the technologist can assist the physician making a correct diagnosis. **Prerequisite: acceptance into program.**

NMTEC262
Clinical Nuclear Medicine III • 1.0 Credit
Discusses advanced topics related to imaging and non-imaging procedures. Topics include hematology and immunology, laboratory techniques in nuclear medicine, Schilling test, H. pylori breath testing, blood volume determination, bone densitometry, radioimmunotherapy, and advanced nuclear neurology. **Prerequisite: acceptance into program.**

NMTEC275
Board Preparation • 1.0 Credit
Prepares students for the NMTCB exam by reviewing all aspects of nuclear medicine technology and giving practice tests. Students focus on practical application of the basic science knowledge gained throughout the program. Students also complete a capstone project. **Prerequisite: acceptance into program.**

NMTEC280
CT for the Nuclear Medicine Technologist • 3.0 Credits
Provides didactic instruction in CT scanning, as is pertinent to its application to nuclear medicine procedures. Includes information pertaining to production and detection of X-rays in CT, instrumentation and image reconstruction, specific technique applications, patient care, and quality control. **Prerequisite: acceptance into program.**

Nuclear Technology

NT 111
Basic Nuclear Math & Physics • 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: grade of 2.0 or better in MATH 095 or MATH 050 or MATH 070 or satisfactory placement test score.**

NT 114
Introduction to Radiation Safety • 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.

NT 121
Reactor Plant Operations • 4.0 Credits
Introduction to the basics of reactor plant operations. Topics include basic computer operations and knowledge of basic systems associate with a nuclear power plant. **Prerequisite: admission to the Nuclear Technology program.**

NT 122
Basic Nuclear Facilities • 4.0 Credits
Introduction to tank farms, vitrification, and decommissioning nuclear facilities. **Prerequisite: admission to the Nuclear Technology program.**

NT 131
Nuclear Facility Components • 4.0 Credits
Introduction to basic mechanical and electrical components used by nuclear power plants such as different types of piping, valves, pumps, ejectors, filters, turbines, heat exchangers, compressors, lubrication systems, valve actuators, breakers, transformers, relays, and other equipment.

NT 141
Basic Reactor Safety, Theory, & Operations • 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: NT 121 or NT 122.**

NT 142
Basic Nuclear Safety & Environmental Compliance • 5.0 Credits
An introduction to nuclear facility safety, accident analysis, and environmental regulations and compliance standards. **Prerequisite: NT 121 or NT 122.**

NT 150
Internship Seminar • 1.0 Credit
This class focuses on preparation for the internship. Topics include workplace expectations, safety, and communication skills. Evaluation methods for the internship are explained and discussed. **Prerequisite: currently enrolled in the NT program or instructor permission.**

NT 152
Internship • 1.0–5.0 Credits
Students serve an internship of up to 165 hours with a company that uses nuclear technicians in radiation protection, nuclear reactor operations, or nuclear reactor maintenance. Students are expected to apply learned skills and training to be a productive employee and the employer is expected to place students in an environment that builds on the first year of study and enhances knowledge of working in the nuclear industry. **Prerequisite: NT 150 or instructor/department chair approval.**

NT 154
Industry Project • 1.0–5.0 Credits
Students complete an industry project with a company that uses nuclear technicians. Students are expected to apply learned skills and training to be productive employees, and employers are expected to create a project that builds on the students' first year of study and enhances the students' knowledge of working in the nuclear industry. Thirty-three field-based experience hours equals one credit. **Prerequisite: instructor/ departmental chair approval.**

NT 160
Nuclear Chemistry • 3.0 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: CHEM& 140.**

NT 170
Mechanical & Fluid Power Transmission • 4.0 Credits
Formerly MEC 111
Introduction to the concepts of mechanical and fluid power transmission including principles of heat, steam, heat transfer, and fluid flow. **Prerequisite: NT 111.**

NT 200
Nuclear Industry Exam Preparation • 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. **Prerequisite: must be enrolled as a Nuclear Technology student.**

NT 261
Nuclear Facilities Management • 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. **Prerequisite: instructor permission.**

Nursing

NRS 101
Basic Pharmacology Math • 1.0–3.0 Credits
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: admission to the Nursing program.**

NRS 102
Pharmacological Classifications I • 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: NRS 101 and 111/113 with a 2.0 or better and concurrent enrollment in NRS 121/123.**

NRS 103
Pharmacological Classifications II • 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: NRS 102 and 121/123 with a 2.0 or better and concurrent enrollment in NRS 131/133.**

NRS 111
Nursing I • 1.0–7.0 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. **Prerequisite: admission to the Nursing program.**

NRS 113
Nursing I Lab • 1.0–4.0 Credits
Formerly NRS 1111
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. **Prerequisite: admission to the Nursing program.**

NRS 121
Nursing II • 1.0–5.0 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. **Prerequisite: NRS 101 and 111/113 with a 2.0 or better.**

NRS 123
Nursing II Lab • 1.0–5.0 Credits
Formerly NRS 1211
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. **Prerequisite: NRS 101 and 111/113 with a 2.0 or better.**

NRS 131
Nursing III • 1.0–5.0 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. **Prerequisite: NRS 102 and 121/123 with a 2.0 or better.**

NRS 133
Nursing III Lab • 1.0–5.0 Credits

Formerly NRS 1311

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. **Prerequisite: NRS 102 and 121/123 with a 2.0 or better.**

NRS 135
Nursing Trends Lab • 1.0–2.0 Credits

Formerly NRS 1351

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. **Prerequisite: enrollment in the Nursing program.**

NRS 145
First Year Clinical Elective • 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. **Prerequisite: a grade of 2.0 or better in NRS 103, 131, and 133.**

NRS 151
Advanced Placement • 1.0–11.0 Credits

The LPN advanced placement process is designed for Licensed Practical Nurses who seek to further their education and advance in the nursing profession. This program begins summer quarter and students are admitted on a space available basis. The course provides the opportunity to orient students for transition into the RN program the subsequent fall quarter. The program recognizes knowledge previously obtained from other practical nursing education programs. All students requesting entrance into the LPN Advanced Placement program must have graduated from an accredited Practical Nursing program and passed the LPN NCLEX examination. Students must also hold an unencumbered Washington State LPN license and have current experience in acute care. The advanced placement program builds on the practical nursing foundation by broadening theoretical knowledge, enhancing nursing skills, and increasing critical thinking to prepare the LPN for role change responsibilities.

NRS 201
Pharmacological Classifications III • 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: NRS 103 with a 2.0 or better and concurrent enrollment in NRS 211/213.**

NRS 211
Nursing IV • 1.0–5.0 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.**Prerequisite: Completion of NRS 103, 131, and 133, all with a 2.0 r better.**

NRS 213
Nursing IV Lab • 1.0–5.0 Credits

Formerly NRS 2111

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. **Prerequisite: Completion of NRS 103, 131, and 133, all with a 2.0 or better.**

NRS 221
Nursing V • 1.0–5.0 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. **Prerequisite: NRS 201 and 211/213 with a 2.0 or better.**

NRS 222
Professional Issues I • 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 221/223.**

NRS 223
Nursing V Lab • 1.0–5.0 Credits

Formerly NRS 2211

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. **Prerequisite: NRS 201 and 211/213 with a 2.0 or better.**

NRS 231
Nursing VI • 1.0–5.0 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. **Prerequisite: NRS 222 and 221/223 with a 2.0 or better.**

NRS 232
Professional Issues II • 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: NRS 222 and 221/213 with a 2.0 or better and concurrent enrollment in NRS 231/233.**

NRS 233
Nursing VI Lab • 1.0–8.0 Credits
Formerly NRS 2311
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. **Prerequisites: NRS 222 and 221/223 with a 2.0 or better.**

NRS 235
Nursing Trends Lab • 1.0 Credit
Formerly NRS 2351
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. **Prerequisite: enrollment in the Nursing program.**

NRS 299
Special Studies • 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 the 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. **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/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. **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. **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
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 class is cross-listed with AG 340, AMGT 340, and HCAD 315. Students completing NRS 315 may not receive graduation credit for AG 340, AMGT 340, or HCAD 315. Class must be passed with a 2.0 or better to count for BAS Applied Management degree. **Prerequisite: Students must be accepted into the RN to BSN or 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 the 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.**Prerequisite:**

Completion of NRS 305, NRS 310, and NRS 311, all with a 2.0 or higher.

NRS 331
Acute Care 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. **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. **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. **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. **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. **Prerequisite: Completion of NRS 330, NRS 331, and NRS 332, all with a 2.0 or higher.**

NRS 350
Pathophysiology, 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 the RN to BSN program prior to enrollment.**

NRS 399
NCLEX Exam • 35.0 Credits

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. **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. **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 the 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 the 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. **Prerequisite: Students must be accepted into the 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. **Prerequisite: Students must be accepted into the 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. **Prerequisite: Completion of NRS 400 and NRS 401, both with a 2.0 or higher.**

Nursing Assistant

NA 100
Nursing Assistant • 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. **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 • 4.0 Credits
Formerly NA 1001
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. **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
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.

Occupational Safety & Health

OSH 101
Fundamentals of Occupational Safety & Health • 5.0 Credits
Formerly IHST 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. **Prerequisite: grade of 2.0 or better in STAT 092 or MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 (or MATH 072) or satisfactory placement test score and/or acceptance into the program.**

OSH 124
Industrial and Construction Safety Regulations • 5.0 Credits
Formerly IHST 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.

OSH 147
Ethics, Documentation, and Records • 4.0 Credits
Formerly IHST 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.

OSH 151
Accident Prevention, Inspection & Investigations • 5.0 Credits
Formerly IHST 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.

OSH 152
Internship • 1.0–7.0 Credits
Formerly IHST 152
Under the supervision of the college instructor and employer, a student will serve an internship of up to 231 hours in an industry, enforcement agency, or consultation services setting. **Prerequisite: CTE department permission.**

OSH 153
Risk Management • 5.0 Credits
Formerly IHST 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.

OSH 177
Industrial Chemical Safety & Hazards • 5.0 Credits
Formerly IHST 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.

OSH 230
Industrial Toxicology • 5.0 Credits
Formerly IHST 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.

OSH 231
Biological Hazards • 5.0 Credits
Formerly IHST 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.

OSH 233
Fire Protection Systems • 2.0 Credits
Formerly IHST 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.

OSH 235
Physical Hazards • 5.0 Credits
Formerly IHST 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.

OSH 271
Fundamentals of Industrial Hygiene • 4.0 Credits
Formerly IHST 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.

OSH 272
Ergonomics • 4.0 Credits
Formerly IHST 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.

OSH 274
Safety Program Management • 5.0 Credits
Formerly IHST 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.

OSH 277
Environmental Management • 5.0 Credits
Formerly IHST 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.

OSH 280
Industrial Instrumentation and Equipment • 5.0 Credits
Formerly IHST 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.

Paramedic

PMD 201
Paramedic I • 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. **Prerequisite: acceptance into the program. See CBC Paramedic program entrance requirements at columbiabasin.edu/paramedic.**

PMD 202
Paramedic II • 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 the previous PMD course sequence with a grade of 2.0 or better.**

PMD 203
Paramedic III • 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 previous PMD sequence courses with a grade of 2.0 or better.**

PMD 204
Paramedic IV • 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 previous PMD sequence courses with a grade of 2.0 or better.**

PMD 205
Paramedic V • 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 previous PMD sequences with a grade of 2.0 or better.**

PMD 206
Paramedic VI • 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 the previous PMD sequences with a grade of 2.0 or better.**

PMD 210
Paramedic I Lab • 2.0 Credits
Formerly PMD 2013
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.

PMD 220
Paramedic II Lab • 3.0 Credits
Formerly PMD 2023
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.

PMD 230
Paramedic III Lab • 3.0 Credits
Formerly PMD 2033
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.

PMD 240
Paramedic IV Lab • 3.0 Credits
Formerly PMD 2043
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.

PMD 250
Paramedic V Lab • 3.0 Credits
Formerly PMD 2053
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.

PMD 260
Paramedic VI Lab • 3.0 Credits
Formerly PMD 2063
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.

PMD 270
Extended Paramedic Internship • 1.0–3.0 Credits
Formerly PMD 2103
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. **Prerequisite: successful completion of all previous PMD sequences with a minimum overall GPA of 2.5. Placement into this course is at the discretion of the Paramedic Director.**

Perioperative Nursing

PON 101
Perioperative Nursing Theory I • 6.0 Credits
This course is designed to prepare students for entry into perioperative nursing practice. Surgical nursing concepts are presented using a combination of lectures and online modules published by the Association

of periOperative registered Nurses (AORN). Topics include an introduction to perioperative nursing practice, related core nursing skills, teamwork in the perioperative setting, the operating room environment, and standards for aseptic technique and surgical patient safety. **Prerequisite: graduate of an accredited registered nursing program with current Washington state RN licensure and acceptance into the Perioperative Nursing program.**

PON 111
Perioperative Nursing Lab • 3.0 Credits
This course provides students the opportunity to apply core perioperative nursing concepts and practice skills within a structured laboratory environment. Students will perform technical skills within the scope of the perioperative nurse. Skills include sterile and aseptic technique, preoperative patient preparation, surgical patient positioning, operative counts, and other functions performed in the scrub and circulating nurse roles. **Prerequisite: graduate of an accredited registered nursing program with current Washington state RN licensure and acceptance into the Perioperative Nursing program.**

PON 201
Perioperative Nursing Theory II • 4.0 Credits
This course explores the role of the perioperative nurse within the context of the primary surgical specialties and will review basic surgical anatomy, pathophysiology, surgical wound classification and healing, operative instrumentation, and general considerations for patients undergoing general, obstetric and gynecologic, otorhinolaryngologic, genitourinary, orthopedic, plastic and reconstructive, peripheral vascular, cardiothoracic, oral and maxillofacial, ophthalmic, and neurosurgical procedures. **Prerequisite: PON 101 and 111, both with a minimum grade of 2.0.**

PON 221
Perioperative Nursing Practicum • 5.0 Credits
Students in this course will gain technical experience within the perioperative nursing role by participating in a structured clinical internship program. Students prepare for and perform assigned surgical tasks under the supervision of facility personnel, clinical preceptors, and clinical college faculty in accordance with patient safety standards and industry best practices. **Prerequisite: PON 101 and 111, both with a minimum grade of 2.0.**

Philosophy

PHIL&101
Intro to Philosophy [H] • 5.0 Credits
Formerly PHI 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 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: grade of 2.0 or higher in MATH 094 or MATH 095 or MATH 098 or MATH 050 or MATH 070 or MATH 072 or appropriate placement.**

PHIL 131
World Religions [H] • 5.0 Credits
Formerly PHI 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
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: meets the criteria for 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: meets the criteria for acceptance into a BAS/BSN program, completion of a two-year degree or equivalent, or instructor approval.**

Phlebotomy

PHLEB100
Phlebotomy I • 4.0 Credits
This lecture is the first course of a two-course sequence. Medical terminology and basic anatomy are introduced. Students learn skill development in the performance of blood and specimen collection methods using proper techniques and standard precautions. Emphasis is on safely collecting specimens from clients across the life span utilizing a variety of collection devices. The principles of infection prevention and safety with specimen collection are emphasized. Communication techniques and maintaining patient data are presented. Students must

pass this course with 75 percent or better in order to continue into the subsequent course, PHLEB 101. **Prerequisite: acceptance into the Phlebotomy program.**

PHLEB101
Phlebotomy I Lab • 5.0 Credits
Formerly PHLEB1001
This clinical course is the second class of the two-course sequence. This class requires 120 hours of supervised clinical experience in various medical facilities throughout the regional area. The 120 clinical hours are arranged by the instructor. Students need to accommodate the hours of the facility where they are assigned, and complete the 120 hours within the quarter. Clinical facility hours may begin as early as 6 am and end as late as 6 pm, Monday through Saturday. Students who successfully complete both courses (9 credits total) with a 75 percent or better will receive a certificate of completion from Columbia Basin College with academic credit. **Prerequisite: successful completion of PHLEB 100 with a 75 percent or better.**

Physical Education

PE 110
Aerobics Step Training I [PE] • 1.0 Credit
Formerly PE 1101
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.

PE 111
Aerobics Step Training II [PE] • 1.0 Credit
Formerly PE 1111
Continued study and involvement offering a greater level of conditioning through the use of more intense training techniques involved with step training.

PE 112
Aerobic Dance I [PE] • 1.0 Credit
Formerly PE 1121
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.

PE 113
Aerobic Dance II [PE] • 1.0 Credit
Formerly PE 1131
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. **Prerequisite: PE 112.**

PE 114
Aerobic Dance III [PE] • 1.0 Credit
Formerly PE 1141
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. **Prerequisite: PE 113.**

PE 115
Body Mechanics [PE] • 1.0 Credit
Formerly PE 1151
This course involves special exercise and calisthenics which enhance total fitness, figure improvement, body toning, weight control, and posture.

PE 116
Pilates [PE] • 1.0 Credit
Formerly PE 1161
An introductory course to Pilates emphasizing physical exercises, breathing, core strength and stability, and muscle awareness.

PE 117
Yoga I [PE] • 1.0 Credit
Formerly PE 1171
An introductory course to Hatha Yoga emphasizing physical exercises, breathing exercises, and meditation practice.

PE 118
Step Aerobic Interval Training [PE] • 1.0 Credit
Formerly PE 1181
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.

PE 119
Yoga II [PE] • 1.0 Credit
Formerly PE 1191
A continuation course to a Hatha Yoga practice including intermediate physical poses, yoga breathing exercises, and selected meditations.

PE 120
Weight Training I [PE] • 1.0 Credit
Formerly PE 1201
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.

PE 121
Weight Training II [PE] • 1.0–2.0 Credits
Formerly PE 1211
An intermediate program with students designing their individual workout program.

PE 122
Weight Training III [PE] • 1.0–2.0 Credits
Formerly PE 1221
An advanced program with the student designing her/his individual workout program.

PE 127
Fitness Center [PE] • 1.0–6.0 Credits
Formerly PE 1271
A total fitness program that develops individual fitness levels in cardiovascular training with benefits of weight training to improve muscle tone and physical conditioning. Students can earn a maximum of two credits per quarter from Fitness Center classes.

PE 135
Golf Swing Analysis Strategies [PE] • 2.0 Credits
Formerly PE 1351

A comprehensive study of the individual parts of the modern golf swing with intensive training directed toward precise control and more power.

PE 140
Softball I [PE] • 1.0 Credit
Formerly PE 1401
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.

PE 141
Softball II [PE] • 1.0 Credit
Formerly PE 1411
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. **Prerequisite: PE 140.**

PE 142
Softball III [PE] • 1.0 Credit
Formerly PE 1421
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. **Prerequisite: PE 140 and PE 141.**

PE 145
Soccer I [PE] • 1.0 Credit
Formerly PE 1451
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.

PE 146
Soccer II [PE] • 1.0 Credit
Formerly PE 1461
Soccer II is designed for the intermediate player. Review of the basic skills taught in the beginning course. Additional work on strategy, defensive techniques. **Prerequisite: PE 145.**

PE 147
Soccer III [PE] • 1.0 Credit
Formerly PE 1471
Soccer III is designed for the advanced player. Advanced strategy, team defensive, and team offensive techniques are taught. Skills and rules are tested. **Prerequisite: PE 146.**

PE 148
Jogging I [PE] • 1.0–2.0 Credits
Formerly PE 1481
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.

PE 160
Basketball I [PE] • 1.0 Credit
Formerly PE 1601
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.

PE 161
Basketball II [PE] • 1.0 Credit
Formerly PE 1611
Students expand their knowledge of the skills of basketball, and additional skills are introduced. Team strategy at a more advanced level is emphasized. **Prerequisite: PE 160.**

PE 162
Basketball III [PE] • 1.0 Credit
Formerly PE 1621
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. **Prerequisite: PE 161.**

PE 163
Volleyball I [PE] • 1.0 Credit
Formerly PE 1631
Covers basic skills, court positions, and strategies for beginning sets along with 4-2 and 5-1 offenses.

PE 164
Volleyball II [PE] • 1.0 Credit
Formerly PE 1641
A continuation of Volleyball I. Intermediate skills, defensive strategies, play sets, and how to play doubles and triples volleyball. **Prerequisite: PE 163.**

PE 165
Volleyball III [PE] • 1.0 Credit
Formerly PE 1651
Emphasis is on team plan and interaction using and applying all volleyball skills. **Prerequisite: PE 164.**

PE 172
Bowling I • 1.0 Credit
Formerly PE 1721
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.

PE 182
Adaptive PE Lab [PE] • 1.0 Credit
Formerly PE 1801
Lab to be taken concurrently with PE 180.

PE 187
Baseball I [PE] • 1.0–2.0 Credits
Formerly PE 1871
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.

PE 188
Baseball II [PE] • 1.0 Credit
Formerly PE 1881
Students expand their knowledge of the skills of baseball taught at the beginning level. Team strategy is taught at a more advanced level. **Prerequisite: PE 187.**

PE 189
Baseball III [PE] • 1.0 Credit
Formerly PE 1891
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. **Prerequisite: PE 188.**

PE 190
Cardio Kickboxing I [PE] • 1.0 Credit
Formerly PE 1901
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.

PE 198
Special Studies • 1.0–15.0 Credits
Formerly PE 1991
An experimental class to be used to explore new approaches and applications to Physical Education.

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.

PE 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Physical Education Professional

PEC 135
Swing Analysis and Strategies • 2.0 Credits
Formerly PEC 1351
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.

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: PEC 235.**

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. **Prerequisite: grade of 2.0 or better in MATH 040 or 084.**

PHYS&110
Physics for Non-Science Majors w/ Lab [M/S] • 5.0 Credits
Formerly PHYS&100, PHYS&101
Introduces the principles and concepts of physics using elementary algebraic procedures. Selected topics from classical and modern physics. Primarily for the non-science major. **Prerequisite: grade of 2.0 or better in MATH 050, 060, 062, 096 or higher.**

PHYS&114
General Physics I w/ Lab [M/S] • 5.0 Credits
Formerly PHYS&124, 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. **Prerequisite: grade of 2.0 or better in MATH 113 or equivalent (Geometry/Trignometry, MATH&142, MATH&152, or MATH&153).**

PHYS&115
General Physics II w/ Lab [M/S] • 5.0 Credits
Formerly PHYS&135, PHYS&125
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. **Prerequisite: grade of 2.0 or better in PHYS& 114.**

PHYS&116
General Physics III w/ Lab [M/S] • 5.0 Credits
Formerly PHYS&126, PHYS&136
Oscillations and waves, electromagnetic waves, geometric optics, physical optics, optical instrument, quantum physics, atomic physics, and nuclear physics. **Prerequisite: grade of 2.0 or better in PHYS& 115.**

PHYS 199
Special Studies • 1.0–5.0 Credits
A class used to explore new coursework.

PHYS&221
Engineering Physics I w/ Lab [M/S] • 5.0 Credits
Formerly PHYS&241, PHYS&231
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. **Prerequisite: grade of 2.0 or better in MATH& 151 or equivalent.**

PHYS&222
Engineering Physics II w/ Lab [M/S] • 5.0 Credits
Formerly 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. **Prerequisite: grade of 2.0 or better in MATH& 152 and PHYS& 221.**

PHYS&223
Engineering Physics III w/ Lab [M/S] • 5.0 Credits
Formerly PHYS&243, PHYS&233
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.
Prerequisite: grade of 2.0 or better in PHYS& 222.

PHYS 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Political Science

POLS 104
State and Local Government [S/B] • 5.0 Credits
Formerly 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 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
American Government [S/B] • 5.0 Credits
Formerly PS 100
A survey of the system and process of American national politics and government; including the structure and function of the executive, legislative, and judicial branches, and the American political party system.

POLS&203
International Relations [S/B] • 5.0 Credits
Formerly 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 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 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 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Project Management

PROJ 100
Introduction to Project Management • 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 • 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. Introduces schedule concepts and is typically taken concurrently with scheduling software course PROJ 130 or 140.
Prerequisite: PROJ 100 with a 2.0 or better or concurrent enrollment with instructor permission.

PROJ 120
Project Execution & Control • 5.0 Credits
Presents the project execution phase and corresponding monitoring and control activities. Also addresses project team acquisition and development; performing quality assurance/control activities; distributing information; managing stakeholder expectations; and procurement activities. **Prerequisite: PROJ 110 with a 2.0 or better or instructor permission.**

PROJ 130
Introduction to Microsoft Project • 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: PROJ 110 with a 2.0 or better.

PROJ 170
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.
Prerequisite: enrollment in the Project Management program and instructor permission.

PROJ 211
Project Procurement • 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: PROJ 110 with a 2.0 or better; PROJ 120 with a 2.0 or better or concurrent enrollment.**

PROJ 222
Project Quality Management • 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: PROJ 110 with a 2.0 or better; PROJ 120 with a 2.0 or better or concurrent enrollment.**

PROJ 231
Project Risk Management • 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: PROJ 110 with a 2.0 or better.**

PROJ 241
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. Includes evaluation of project decisions to identify improvement opportunities. **Prerequisite: PROJ 120 with a 2.0 or better; PROJ 130 with a 2.0 or better or PROJ 140 with a 2.0 or better; PROJ 211 with a 2.0 or better; PROJ 222 with a 2.0 or better; and PROJ 231 with a 2.0 or better.**

PROJ 270
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. **Prerequisite: enrollment in the Project Management program and instructor permission.**

PROJ 299
Special Studies • 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: PROJ 120 with a 2.0 or better and PROJ 211 with a 2.0 or better.**

PROJ 320
Project Monitoring, Control, & Earned Value • 5.0 Credits
Develops monitoring and control issues beyond PROJ 120 including earned value management concepts and skills. **Prerequisite: PROJ 120 with a 2.0 or better; PROJ 130 with a 2.0 or better or PROJ 140 with a 2.0 or better; or instructor permission.**

PROJ 330
Project HR Management & Communication Skills • 5.0 Credits
Addresses project team development, leadership, and dynamics, as well as dealing with conflict. Specifically needed communication skills are identified and developed through appropriate activities (e.g., presentations, role play). **Prerequisite: PROJ 120 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. **Prerequisite: enrollment in the Project Management program and instructor permission.**

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: PROJ 130 with a 2.0 or better or with instructor permission.**

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. **Prerequisite: enrollment in the Project Management program and instructor permission.**

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: PROJ 231 with a 2.0 or better; PROJ 310 with a 2.0 or better; PROJ 320 with a 2.0 or better; PROJ 330 with a 2.0 or better; PROJ 222 with a 2.0 or better; and either PROJ 411 or PROJ 421 with a 2.0 or better; or instructor permission.**

Psychology

PSYC&100
General Psychology [S/B] • 5.0 Credits
Formerly PSY 101
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
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

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
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
A comprehensive survey of psychological development of the human from conception to death using the biopsychosocial approach. **Prerequisite: PSYC& 100.**

PSYC 201
Social Psychology [S/B] • 5.0 Credits
Formerly PSY 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. **Recommended prerequisite: PSYC& 100.**

PSYC 205
Psychology of Adjustment • 5.0 Credits
Formerly PSY 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: PSYC& 100.**

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
Abnormal Psychology [S/B] • 5.0 Credits
Formerly PSY 202
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: PSYC& 100.**

PSYC 270
Health Psychology • 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. **Recommended prerequisite: PSYC& 100.**

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: PSYC& 100.**

PSYC 297
Field Experience • 1.0–3.0 Credits
Formerly PSYC 2972
Students work as volunteers in a community agency and complete a journal and report (usually 1 credit). **Prerequisite: PSYC& 100 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 • 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: admission to the Nuclear Technology program.**

RPT 121
Radiation Monitoring • 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: RPT 111 or concurrent enrollment or instructor permission.**

RPT 131
Radiation Effects • 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: RPT 111 or 121 or instructor permission.**

RPT 141
Radioactive Materials Handling • 5.0 Credits
Radioactive material control and methods to minimize and control external exposure and airborne radioactivity. **Prerequisite: RPT 111.**

RPT 211
Radiological Safety and Response • 5.0 Credits
This course focuses on contamination control and appropriate responses to radiological events. **Prerequisite: RPT 111.**

RPT 222
Radiation Protection • 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: RPT 111.**

Radiologic Technology

RATEC102
Radiographic Physics • 5.0 Credits
Examines X-ray circuits, tubes, and X-ray equipment. Topics include design and application, troubleshooting and maintenance, equipment testing, imaging intensification, cineradiography, and advanced imaging procedures. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC103
Principles of Radiographic Exposure • 3.0 Credits
Presents basic elements of radiologic technique and other factors influencing it. Format includes two hours of lecture and a two-hour lab each week. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC104
Advanced Radiographic Procedures • 4.0 Credits
Examines the theory and principles of contrast media used in radiologic examinations and special positioning. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC105
Introduction to Radiographic Technique • 2.0 Credits
Introduces concepts of electromagnetic radiation necessary to understanding the production and control of X-radiation. Students learn how the radiographic image is created and what factors affect the appearance of that image. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC106
Computed Imaging • 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 the Radiologic Technology program.**

RATEC107
Positioning and Related Anatomy I • 2.0 Credits
Presents basic positioning principles and terminology. Students get demonstration and film evaluation experience in positioning and related anatomy of the chest, abdomen, and upper extremities. Format includes two hours of lecture and a two-hour lab each week. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC108
Positioning and Related Anatomy II • 3.0 Credits
Provides demonstration and film evaluation experience in positioning and related anatomy of the spine, pelvis, and lower extremities. Format includes two hours of lecture and a two-hour lab each week. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC109
Positioning and Related Anatomy III • 3.0 Credits
Provides demonstration and film evaluation experience in positioning and related anatomy of the cervical and thoracic spine, boney thorax, skull, facial bones, and sinuses. Format includes two hours of lecture and a two-hour lab each week. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC111
Clinical Education I • 5.0 Credits
Formerly RATEC1113
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. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC112
Clinical Education II • 5.0 Credits
Formerly RATEC1123
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. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC113
Clinical Education III • 5.0 Credits
Formerly RATEC1133
Fourth 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. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC114
Supplemental Clinical Practicum I • 1.0 Credit
Formerly RATEC1143
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 the Radiologic Technology program and instructor permission.**

RATEC120
Nursing Procedures • 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. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC121
Patient Care • 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. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC127
Introduction to Sectional Anatomy • 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. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC199
Special Studies • 1.0–10.0 Credits
A class used to explore new coursework.

RATEC207
Concept Integration • 2.0 Credits
Prepares students for the American Registry of Radiologic Technologists exam through a comprehensive review. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC210
Clinical Education IV • 13.0 Credits
Formerly RATEC2103
Fifth in a series of supervised clinical education experiences. Students are assigned to clinical sites, 40 hours per week for 11 weeks. Specific performance objectives are established for each student. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC211
Clinical Education V • 8.0 Credits
Formerly RATEC2113
Sixth in a series of supervised clinical education experiences. Students are assigned to clinical sites, 24 hours per week. Specific performance objectives are established for each student. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC212
Clinical Education VI • 8.0 Credits
Formerly RATEC2123
Seventh in a series of supervised clinical education experiences. Students are assigned to clinical sites, 24 hours per week. Specific performance objectives are established for each student. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC213
Clinical Education VII • 8.0 Credits
Formerly RATEC2133
Eighth in a series of supervised clinical education experiences. Students are assigned to clinical sites, 24 hours per week. Specific performance objectives are established for each student. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC214
Supplemental Clinical Practicum II • 1.0 Credit
Formerly RATEC2143
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 and current enrollment in the Radiologic Technology program and instructor permission.**

RATEC220
Pathology I • 3.0 Credits
Introduces changes that occur in disease and injury, with application to radiologic technology. Topics include respiratory, skeletal, gastrointestinal, and urinary systems. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC221
Pathology II • 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. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC240
Radiation Biology and Protection • 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. **Prerequisite: acceptance into the Radiologic Technology program.**

RATEC296
Special Topics in Radiology • 2.0 Credits
Allows study of special topics that may be necessary to update students in the field of radiologic technology. **Prerequisite: acceptance into the Radiologic Technology program or instructor permission.**

RATEC299
Special Studies • 1.0–10.0 Credits
A class used to explore new coursework.

Reading

RDG 091
Reading Skills • 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. **Prerequisite: appropriate placement or teacher recommendation.**

RDG 099
College Reading Skills • 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. **Prerequisite: appropriate placement or successful completion of RDG 091, or teacher recommendation.**

RDG 115
Vocabulary Improvement • 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 • 1.0–15.0 Credits
A class used to explore new coursework.

RDG 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Senior Citizen

SNR 015
Senior Fitness • 0.0 Credits
Class includes total fitness program involving strength, flexibility, muscle toning, and aerobic exercise. Orientation and instructor's permission are required for this class.

Social Science

SSCI 199
Special Studies • 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
Formerly SSCI 2901
Lab to be taken concurrently with SCCI 290.

Social Work

SOWK 101
Introduction to Social Work • 5.0 Credits
Formerly HS 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 • 5.0 Credits
Formerly HS 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 • 5.0 Credits
Formerly HS 201
This course is an overview of major theories of counseling and psychotherapy. Students will be exposed to a wide variety of thories 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: SOWK 101 or concurrent enrollment.**

Sociology

SOC& 101
Intro to Sociology [S/B] • 5.0 Credits
Formerly 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.

SOC 115
Intro to Middle East History & Society [S/B] • 5.0 Credits
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. **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: SOC& 101 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
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
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. 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: SOC& 101 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 the Bachelor of Applied Science program or instructor permission. Recommended: SOC& 101 or 201.**

Spanish

SPAN 110
Beginning Spanish for Professionals [H] • 5.0 Credits
Formerly SPA 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
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: SPAN 110, SPAN& 121, or instructor permission.**

SPAN 112
Advanced Spanish for Professionals [H] • 5.0 Credits
Formerly SPA 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: SPAN 111, SPAN& 122, or instructor permission.**

SPAN&121
Spanish I [H] • 5.0 Credits
Formerly SPA 101
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. **Recommended prerequisite: successful completion of at least ENGL 099.**

SPAN&122
Spanish II [H] • 5.0 Credits
Formerly SPA 102
Introduction to the Spanish language including conversational skills, reading, writing and grammar, and Hispanic culture including geography, customs, daily life, and heritage. **Prerequisite: SPAN& 121 or instructor permission.**

SPAN&123
Spanish III [H] • 5.0 Credits
Formerly SPA 103
Introduction to the Spanish language including conversational skills, reading, writing, grammar, Hispanic culture including geography, customs, daily life, and heritage. **Prerequisite: SPAN& 122 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
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
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: SPAN 205 or instructor permission.**

SPAN 207
Spanish for Spanish Speakers [H] • 5.0 Credits
Formerly SPA 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: SPAN 206 or instructor permission.**

SPAN&221
Spanish IV [H] • 5.0 Credits
Formerly SPA 201
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: SPAN& 123 or instructor permission.**

SPAN&222
Spanish V [H] • 5.0 Credits
Formerly SPA 202
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: SPAN& 221 or instructor permission.**

SPAN&223
Spanish VI [H] • 5.0 Credits
Formerly SPA 203
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: SPAN& 222 or instructor permission.**

SPAN 281
Spanish Medical Interpreting I • 5.0 Credits
The Spanish Medical Interpreting program is a sequential, three-quarter vocational certificate program, consisting of Spanish Medical Interpreting I, II, and III. The program prepares students for state or national medical interpreter certification and to enter the workforce as professional, ethical, and competent healthcare interpreters. Students are introduced to healthcare interpreting as a profession, concepts and relevant terminology in biomedicine, and given opportunities to develop foundational skills in healthcare interpreting. Topics include: International code of ethics and its application, language access laws, HIPAA, interpreting modalities and protocols, basic note-taking skills, self-evaluation, glossary building and intervention techniques. **Prerequisite: 1. Native-like proficiency in English and Spanish. 2. Applicants must pass an entrance test to be admitted. Recommended courses: HSCI 147, SPAN 205, 206, 207. Cross-listed with HSCI 148 (credit cannot be received for both courses).**

SPAN 282
Spanish Medical Interpreting II • 5.0 Credits
The Spanish Medical Interpreting program is a sequential, three-quarter vocational certificate program, consisting of Spanish Medical Interpreting I, II, and III. The program prepares students for state or national medical interpreter certification and to enter the workforce as professional, ethical, and competent healthcare interpreters. Students are introduced to healthcare interpreting as a profession, concepts and relevant terminology in biomedicine, and given opportunities to develop foundational skills in healthcare interpreting. This course builds on the knowledge and skills acquired in SPAN 281/HSCI 148. Topics include: National code of ethics and standards of practice, ethical decision-making, basic medical prefixes, roots and suffixes, note-taking and sight translation skills, interpreter positioning, language and communication dynamics, and the role of the interpreter in health equity. **Prerequisites: HSCI 148 or SPAN 281 with a 1.0 or higher. Cross-listed with HSCI 149 (credit cannot be received for both courses).**

SPAN 283
Spanish Medical Interpreting III • 5.0 Credits
The Spanish Medical Interpreting program is a sequential, three-quarter vocational certificate program, consisting of Spanish Medical Interpreting I, II, and III. The program prepares students for state or national medical interpreter certification and to enter the workforce as professional, ethical, and competent healthcare interpreters. Students are introduced to healthcare interpreting as a profession, concepts and relevant terminology in biomedicine, and given opportunities to develop foundational skills

in healthcare interpreting. This course builds on the knowledge and skills acquired in Spanish Medical Interpreting II. This course provides students with guided interpreting practice. Topics include: State code of ethics, abbreviations in healthcare, the concepts of patient advocacy, communicative autonomy, cultural brokering and responsiveness, and business practices in the industry. **Prerequisites: HSCI 149 or SPAN 282 with a 1.0 or higher. Cross-listed with HSCI 150 (credit cannot be received for both courses).**

SPAN 299
Special Studies • 1.0–15.0 Credits
A class used to explore new coursework.

Sterile Processing Technician

SPT 100
Foundations of Sterile Processing • 6.0 Credits
Formerly HCST 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.**Prerequisite: Acceptance into the SterileProcessing Technician program.**

SPT 150
Sterile Processing Clinical • 12.0 Credits
Formerly HCST 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. **Prerequisite: SPT 100 and HSCI 147 with a 2.0 or better in both.**

Surgical Technology

SURG 101
Introduction to Surgical Technology • 4.0 Credits
Formerly SRGT 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 • 3.0 Credits
Formerly SRGT 110
This course surveys perioperative sciences specific to the practice of surgical technology. Topics include operation room equipment and furniture, physical and environmental hazards, basic computer skills, electrical concepts and safety, surgical robotics, operative lasers, decontamination and sterilization fundamentals, infection control practices, 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 • 2.0 Credits
Formerly SRGT 160
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, HIPAA, patient records, medication handling, open gloving, urinary catheterization, patient positioning, preoperative skin preparation, and emergency management. **Prerequisite: completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

SURG 106
Pharmacology for the Surgical Technologist • 5.0 Credits
Formerly SRGT 104
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. **Prerequisite: acceptance into the Surgical Technology program and successful completion of SURG 101, 111, 102, 112, 103, and 113 with a minimum grade of 2.0.**

SURG 107
Surgical Procedures I • 8.0 Credits
Formerly SRGT 150
This course introduces students to surgery and primary surgical procedures within basic specialties including diagnostic procedures, general surgery, obstetrics and gynecology, otorhinolaryngology, genitourinary surgery, and orthopedics. **Prerequisite: acceptance into the Surgical Technology program and successful completion of SURG 101, 111, 102, 112, 103, and 113 with a minimum grade of 2.0.**

SURG 111
Introduction to Surgical Technology Lab • 3.0 Credits
Formerly SRGT 1011
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. **Prerequisite: completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

SURG 112
Perioperative Science Lab • 2.0 Credits
Formerly SRGT 1101
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, basic computer skills, electrosurgical unit safety, surgical instrument reprocessing, assisting with wound closure techniques, and surgical specimen handling. **Prerequisite: completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

SURG 113
Perioperative Patient Care Lab • 1.0 Credit
Formerly SRGT 1601
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. **Prerequisite: completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

SURG 117
Surgical Procedures I Lab • 3.0 Credits
Formerly SRGT 1501
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. **Prerequisite: acceptance into the Surgical Technology program and successful completion of SURG 101, 111, 102, 112, 103, and 113 with a minimum grade of 2.0.**

SURG 202
Central Service • 1.0 Credit
Formerly SRGT 120
This course explores the field of sterile processing and materiel management in the healthcare setting and provides students with the foundational knowledge required to perform the essential job functions of central service personnel. **Prerequisite: acceptance into the Surgical Technology program and successful completion of SURG 106, 107, and 117 with a minimum grade of 2.0.**

SURG 207
Surgical Procedures II • 8.0 Credits
Formerly SRGT 250
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. **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
Surgical Seminar • 3.0 Credits
Formerly SRGT 240
This course is to be taken concurrently with the SURG 224. The seminar provides current information regarding workplace issues, technologies, and advancements in healthcare pertinent to the practicum experience. Students engage in discussions based on their experiential learning opportunities within the practicum to assist in preparation for the national certifying examination for surgical technologists. **Prerequisite: acceptance into the Surgical Technology program and successful completion of SURG 202, 222, 223, and 207 with a minimum grade of 2.0.**

SURG 209
Ethics & Professionalism • 2.0 Credits
Formerly SRGT 103
This class provides an understanding of ethical and legal concepts related to the practice of surgical technology, including: ethical dilemmas, organizational and professional issues, ethics committees, legal concepts, the law as related to the decision-making process in the healthcare setting, and conflict resolution. **Prerequisite: acceptance into the Surgical Technology program and successful completion of SURG 202, 222, 223, and 207 with a minimum grade of 2.0.**

SURG 222
Central Service Clinical • 1.0 Credit
Formerly SRGT 1201
Clinical rotations are designed to reinforce concepts learned in SURG 202. This course explores the field of sterile processing and materiel management in the healthcare setting and provides students with the foundational knowledge and skills required to perform the essential job functions of central service personnel. **Prerequisite: acceptance into the Surgical Technology program and successful completion of SURG 106, 107, and 117 with a minimum grade of 2.0.**

SURG 223
Operating Room Practicum I • 8.0 Credits
Formerly SRGT 1411
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 • 10.0 Credits
Formerly SRGT 2411
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. **Prerequisite: acceptance into the Surgical Technology program and successful completion of SURG 202, 222, 223, and 207 with a minimum grade of 2.0.**

SURG 293
Independent Study • 1.0–5.0 Credits
Formerly SRGT 293
A class used to explore new coursework or for a specific topic of special interest. **Prerequisite: completion of major support courses for Surgical Technology and acceptance into the Surgical Technology program.**

Technical Education

EDUT 204
Instruct Strategies for Career & Tech Instrs • 1.0–4.0 Credits
This course is designed to support career and technical education instructors' knowledge and application of instructional strategies. Students

complete an instructional design course and apply the knowledge gained through the completed course while collaborating with CBC instructor(s) and local mentors to employ and reflect on the use of appropriate strategies in their own professional practice. **Prerequisite: instructor permission.**

Theatre

DRMA 100
Theatre Study Tour • 1.0–3.0 Credits
Formerly DRMA 1001
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 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
Rehearsal and Performance • 1.0–3.0 Credits
Formerly DRMA 1051
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, are involved in rehearsals and performances.

DRMA 106
Rehearsal and Performance • 1.0–3.0 Credits
Formerly DRMA 1061
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, are involved in rehearsals and performances.

DRMA 107
Rehearsal and Performance • 1.0–3.0 Credits
Formerly DRMA 1071
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.

DRMA 110
Creative Dramatics • 3.0 Credits
Formerly THA 110
A course in the fundamentals of creative dramatics. This course fosters some competency in teaching drama skills to children, through the combined use of theatre games, improvisation, class exercises, lectures, and discussion. Recommended for Education majors. **Recommended prerequisite: DRMA 225.**

DRMA 120
Acting-Beginning • 5.0 Credits
Formerly 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 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. **Prerequisite: DRMA 120 or instructor permission.**

DRMA 126
Stagecraft • 1.0–3.0 Credits
Formerly DRMA 1261
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.

DRMA 127
Stagecraft • 1.0–3.0 Credits
Formerly DRMA 1271
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.

DRMA 128
Stagecraft • 1.0–3.0 Credits
Formerly DRMA 1281
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.

DRMA 198
Special Studies • 1.0–3.0 Credits
Formerly DRMA 1991
A class used to explore new coursework.

DRMA 199
Special Studies • 1.0–3.0 Credits
A class used to explore new coursework.

DRMA 200
Theatre Study Tour • 1.0–3.0 Credits
Formerly DRMA 2001
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 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 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: DRMA 120 or instructor permission.**

DRMA 220
Acting Studio • 1.0–3.0 Credits
Formerly DRMA 2201
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: DRMA 120 or instructor permission.**

DRMA 221
Acting Studio • 1.0–3.0 Credits
Formerly DRMA 2211
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: DRMA 120 or instructor permission.**

DRMA 222
Acting Studio • 1.0–3.0 Credits
Formerly DRMA 2221
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: DRMA 120 or instructor permission.**

DRMA 225
Touring Children's Theatre • 1.0–3.0 Credits
Formerly DRMA 2251
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.

DRMA 242
Design Essential • 3.0 Credits
Formerly 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 2431
An introductory course in the theory and practice of stage costume design and construction.

DRMA 244
Stage Makeup • 1.0–2.0 Credits
Formerly 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 2451
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: DRMA 242 or instructor permission.**

DRMA 246
Stage Lighting • 1.0–3.0 Credits
Formerly DRMA 2461
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.

DRMA 248
Stage Management • 2.0 Credits
Formerly 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. **Prerequisite: instructor permission.**

DRMA 249
Special Studies • 1.0–3.0 Credits
Formerly THA 249
Topics vary from among dramatic literature, acting styles, directing, theory criticism, aesthetics, history, and design. May be repeated for credit. **Prerequisite: varies.**

DRMA 250
Directing for the Stage • 3.0 Credits
Formerly 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: DRMA 120 or instructor permission.**

DRMA 298
Special Studies • 1.0–3.0 Credits
Formerly DRMA 2991
A class used to explore new coursework.

DRMA 299
Special Studies - Scene Painting • 1.0–3.0 Credits
A class used to explore new coursework.

Welding Technology

WT 100
Basic Welding • 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. **Prerequisite: instructor permission.**

WT 101
Oxy-Acetylene Process • 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.

WT 103
Fundamentals Major Processes & their Consumables • 1.0–5.0 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.

WT 107
Fabrication Principles Review • 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 meal 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, and a grade of 0.7 or better in MATH 100 or a higher math class, or placement into MATH 100.**

WT 108
Fabrication Technique I • 1.0 Credit
This course is designed to aid students in understanding the variables that greatly affect welding fabrication. **Prerequisite: WT 107 and 112 or instructor permission.**

WT 111
Oxy-Acetylene Process Lab • 1.0–3.0 Credits
Formerly WT 1011
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.

WT 112
Introduction to Shield Metal Arc Welding • 1.0–10.0 Credits
Formerly WT 1021
An introduction to mild steel arc welding consisting of manipulative skills using the shield metal arc process with E6010 type mild steel electrode. **Prerequisite: Acceptance into the Welding Technology program.**

WT 113
Advanced Shield Metal Arc Welding • 1.0–10.0 Credits
Formerly WT 1031
This course develops welding skills to meet AWS and ASME standards using the shielded metal arc process. **Prerequisite: WT 112 or instructor permission.**

WT 131
Metallic Arc Refresher • 1.0–10.0 Credits
Formerly WT 1301
Designed primarily for tradesmen who need upgrading in shielded metallic arc welding. Includes instruction and practice for upgrading skills, test qualifications, and special application. **Prerequisite: trade experience; a test may be given to verify experience.**

WT 140
Shield Metal Arc Certification Preparation • 1.0–5.0 Credits
This course develops students' shielded metal arc welding skills in preparation for meeting American Welding Society (AWS), Washington Association of Building Officials (WABO), and American Society of Mechanical Engineers (ASME) certification standards. **Prerequisite: WT 113 and concurrent enrollment in WT 141 or instructor permission.**

WT 141
Shield Metal Arc Welding Certification • 1.0–5.0 Credits
Formerly WT 1041
This course provides advanced development of arc welding skills to meet American Welding Society (AWS), Washington Association of Building Officials (WABO), and American Society of Mechanical Engineers (ASME) certification standards. **Prerequisite: WT 113 and concurrent enrollment in WT 140 or instructor permission.**

WT 144
Welding Upgrade • 1.0–1.0 Credit
This course provides an opportunity for journeyman welders to upgrade their skills for current employment opportunities. Credits depend on how many hours. **Prerequisite: instructor permission.**

WT 151
Gas Metal Arc Welding (MIG) Certificate • 1.0–10.0 Credits
Formerly WT 1051
An introduction to gas metal arc welding consisting of manipulative skills using the gas metal arc process. **Prerequisite: WT 113 or instructor permission.**

WT 154
WABO Testing • 1.0–2.0 Credits
This course provides required testing to meet the standards for structural steel welding. When students pass the test, the Welding department submits required test results to the Washington Association of Building Officials (WABO) and they issue certification to the student. Credits depend on what type of test. **Prerequisite: instructor permission.**

WT 181
Fabrication Techniques I Lab • 3.0 Credits
Formerly WT 1081
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. **Prerequisite: WT 112 or instructor permission.**

WT 195
Supervised Employment • 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. **Prerequisite: WT 181 or instructor permission.**

WT 201
Weldability of Metals • 1.0–5.0 Credits
This course introduces the concepts that explain the metallurgical behavior and determine the weldability of ferrous and non-ferrous metals. **Prerequisite: WT 141, 108, and 181.**

WT 202
Welding Inspection • 1.0–5.0 Credits
This course is designed to acquaint students with fundamental information and to help in the preparation for the AWS Welding Inspector Certification examination.

WT 208
Fabrication Technique II • 1.0 Credit
This course is designed to aid students in understanding the variables that greatly affect welding fabrication. **Prerequisite: MATH 100 and WT 222 or instructor permission.**

WT 211
Introduction to Pipe Welding • 1.0–10.0 Credits
Formerly WT 2011
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. **Prerequisite: WT 141, 151, or instructor permission.**

WT 222
Gas Tungsten Arc Welding (TIG) • 1.0–10.0 Credits
Formerly WT 2021
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. **Prerequisite: WT 211 or instructor permission.**

WT 231
Pipe Welding Certification • 1.0–10.0 Credits
Formerly WT 2031
This course emphasizes qualification tests for piping and tubing. **Prerequisite: WT 222 or instructor permission.**

WT 233
Pipe Welding Refresher • 1.0–10.0 Credits
Formerly WT 2301
This course is designed for tradesmen who need upgrading on pipe welding procedures and skills for employment in the piping field. Includes instruction and practice for upgrading welding test qualifications and special applications. **Prerequisite: trade experience; a test may be given to verify experience.**

WT 281
Fabrication Technique II Lab • 3.0 Credits
Formerly WT 2081
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. **Prerequisite: WT 222 or instructor permission.**

Women's Studies

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.

Workshop

WKSP 000
Workshop • 0.0 Credits
A class used to explore new coursework.

WKSP 089
Bachelor of Applied Science Program Entry • 0.0 Credits
A class used for registration into BAS classes.

WKSP 090
First Year Introduction for Running Start • 0.0 Credits
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.

WKSP 092
ASCBC Leadership Council • 0.0 Credits
This free weekly workshop allows interested CBC students to be actively involved in the college's student government program as a registered volunteer. This workshop is no-credit.

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M.S., B.S., Northeast University of Technology
Professor, Mathematics

Academic Calendar

Fall Quarter 2022

September 19 to December 8, 2022

September 1 - First day of 2022-23 Faculty Contract
September 5 - Holiday: Labor Day
September 6 and 8 - Fall Quarter FYI
September 12 to 16 - Welcome Week 2022
September 19 - First Day of Fall Quarter
November 9 - Fall Quarter Teaching and Learning Day: Only classes that begin after 4:30 pm will be held.
November 11 - Holiday: Veterans Day
November 23 - Non-Instructional Day
November 24 and 25 - Holiday: Thanksgiving & Native American Heritage Day
December 5 - Fall Quarter Student Success Day
December 6 to 8 - Finals
December 12 - Grades Due Before 2 pm
December 25 - Holiday: Christmas
December 26 - Observed Holiday: Christmas

Instructional Days: 53
Teaching & Learning Days: 1
Welcome Week Days: 5
Student Success Days: 1

Winter Quarter 2023

January 3 to March 23, 2023

January 1 - Holiday: New Years Day
January 2 - Observed Holiday: New Year's Day
January 3 - First Day of Winter Quarter
January 16 - Holiday: Martin Luther King, Jr. Day
February 20 - Holiday: President's Day
February 24 - Winter Quarter Teaching and Learning Day: Only classes that begin after 4:30 pm will be held.
March 20 - Winter Quarter Student Success Day
March 21 to 23 - Finals
March 27 - Grades Due Before 2 pm

Instructional Days: 54
Teaching & Learning Days: 1
Student Success Days: 1

Spring Quarter 2023

April 3 to June 16, 2023

April 3 - First Day of Spring Quarter
April 27 - Spring Quarter Teaching and Learning Day: Only classes that begin after 4:30 pm will be held.
May 29 - Holiday: Memorial Day
June 13 - Spring Quarter Student Success Day
June 14 to 16 - Finals
June 16 - Graduation
June 19 - Holiday: Juneteenth
June 20 - Grades Due Before 2 pm

Instructional Days: 52
Teaching & Learning Days: 1
Student Success Days: 1

Summer Quarter 2023

June 26 to August 18, 2023

June 26 - First Day of Summer Quarter
July 4 - Holiday: Independence Day
August 18 - Finals
August 22 - Grades Due Before 2 pm

Instructional Days: 39

Calendar Terms and Definitions

Academic Year
Four consecutive quarters beginning with summer quarter.

Contract Day
A day faculty members are expected to be engaged in teaching activities or other designated activities as part of their annual 176-day contract.

Counselor/Librarian Faculty
Faculty who are employed as counselors or librarians.

Finals
Final exam days as designated on the academic calendar. All exams must be given at the times designated in the finals schedule. Any deviation from the published finals schedule must be done in consultation with the division dean. Extended day, weekend, and distance learning class exams may be given during the last scheduled class, or at a time designated by the instructor. Times selected may not conflict with the published finals schedule.

Graduation
Graduation ceremony scheduled by the College. Graduation falls on a contract day for faculty and administrative/exempt staff who are required to participate unless excused by the President of the College.

Instructional Day
A contract day in which classes are scheduled for students and faculty.

Instructional Faculty
Faculty whose primary assignment is teaching.

Instructional Year
Three consecutive academic quarters beginning with fall quarter.

In-Service Days
Up to ten contract days for all faculty, five of which are Welcome Week days and three of which are Teaching & Learning Days each year. In-Service days include scheduled activities, trainings and meetings, which promote personal, professional development, and/or support meeting College goals and objectives. Faculty members may have specific work assignments during In-Service days defined by division, department, or program needs.

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.

Teaching & Learning Days
Three scheduled 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.

Student Success Days
Three scheduled days each instructional year occurring on the non-instructional day immediately preceding the first day of finals during which faculty engage in student-success-related activities.

Welcome Week
Five scheduled In-Service days the week before the start of fall quarter in which keynotes, trainings, and all campus, division and department meetings are held, as well as other sessions for professional development, personal growth, resources and operational support.