University of Washington Bothell
General Catalog
Academic Year 2014-2015

Purpose

This catalog includes:

- Academic policies
- Program descriptions
- Requirements for all majors and minors.

The information in this catalog is effective as of autumn quarter 2014.

Student Obligation

It is the student’s obligation to be informed about the policies and standards contained in this catalog.

All efforts are taken to ensure catalog accuracy. However, the catalog is not an irrevocable contract between the student and the University. The University’s total liability for claims arising from a contractual relationship with the student in any way related to classes or programs shall be limited to the tuition and expenses paid by the student to the University for those classes or programs.

In no event shall the University be liable for any special, indirect, incidental, or consequential damages, including but not limited to, loss of earnings or profits.

University’s Right

Due to the rapidly evolving programs and policies at the University, UW Bothell reserves the right to modify course and program offerings, University policies, and other information at any time, without prior notification.
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I. About the University

Campus History
The story begins in the mid-1980s when community, business, and education leaders recognized the increasing need for higher education in the rapidly growing Puget Sound region. In its 1987 Master Plan, the Washington State Higher Education Coordinating Board gave the University of Washington the responsibility of developing branch campuses. In 1990, the University of Washington Bothell was created to meet that need in the northeast Puget Sound area.

For 10 years, UW Bothell was located in a small business park. In 2000 we moved to our current location on 128 acres of picturesque land that was once home to cattle and dairy farming on the Boone-Truly ranch.

The University of Washington Bothell has grown into a unique and beautiful campus. Buildings are situated between towering Douglas fir and Western Red Cedar trees. The facilities house state-of-the-art technology to assist faculty and staff. The northeast portion of the campus contains 58 acres of high-functioning wetland.

Today the University of Washington Bothell has more than 4,900 students and is growing significantly every year. The University offers many academic programs and certificates at the undergraduate, post-baccalaureate and graduate levels. The programs are designed to serve a diverse population of students who have just completed high school, who have completed some college study and are seeking to complete their baccalaureate degrees, initiate post-baccalaureate studies, or pursue courses for personal development.

The University of Washington Bothell is accredited as a unit of the University of Washington by the Northwest Association of Schools and Universities. In accordance with the traditions of the University of Washington, we are dedicated to providing responsive, accessible programs that proudly uphold traditional University of Washington standards of quality.

University of Washington Bothell
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Equal Opportunity
The University of Washington reaffirms its policy of equal opportunity regardless of race, color, creed, religion, national origin, sex, sexual orientation, age, marital status, disability, or status as a disabled veteran or Vietnam era veteran. This policy applies to all programs and facilities, including, but not limited to, admissions, educational programs, employment, and patient and hospital services. Any discriminatory action can be a cause for disciplinary action.


The University of Washington Bothell is committed to providing equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodations, please contact Disability Support Services at least ten days prior to the event at 425.352.5307, TDD 425.352.5303, FAX 425.352.5455, or email drs@uw.edu.

Non-Discrimination Policy
The University of Washington, as an institution established and maintained by the people of the state, is committed to providing equality of opportunity and an environment that fosters respect for all members of the University community. This policy has the goal of promoting an environment that is free of discrimination, harassment, and retaliation. To facilitate that goal, the University retains the authority to discipline or take appropriate corrective action for any conduct that is deemed unacceptable or inappropriate, regardless of whether the conduct rises to the level of unlawful discrimination, harassment, or retaliation.

Accreditation
The three-campus University of Washington is accredited by the Northwest Association of Schools and Colleges and is a member of the Association of American Universities. Individual schools and colleges are members of the various accrediting associations in their respective fields.

II. Mission & Goals

Our Mission
The University of Washington Bothell holds the student-faculty relationship to be paramount. We provide access to excellence in higher education through innovative and creative curricula, interdisciplinary teaching and research, and a dynamic community of multicultural learning.

Our Goals
The University of Washington Bothell is committed to achieving its goals and promotes the on-going review of our outcomes, organizational structures, and processes that support its mission and goals.

- Serve college age and established adult students, as well as the community at large, by providing access to a premier institution of higher education.
• Emphasize and develop critical thinking, writing, and information literacy, in order to graduate students with life-long learning skills.
• Actively recruit and support outstanding faculty scholars with a passion for communication.
• Build an inclusive and supportive community of learning and incorporate multicultural content and diverse perspectives on ethnic and racial groups, gender, sexual orientation, social class, and special needs.
• Encourage and support collaborative, interdisciplinary, and cross-program initiatives.
• Provide quality curricula by making use of the best of educational technology in support of teaching and learning.
• Attract and support an internationally diverse student body and a nationally recognized faculty and staff.
• Create and support excellence in student affairs, academic services, such as library, Writing and Communication Center, computing services, and physical facilities.
• Foster productive relationships with the employment community and promote a strong public service commitment.

21st Century Campus Initiative
The 21st Century Campus Initiative: UW Bothell Priorities Plan 2008-2020 outlines seven priorities to increase the opportunities for students to attain the knowledge, skills and experiences that will prepare them for leadership roles throughout the state and beyond.

The initiative builds on our student-centered traditions, calling for an enhanced focus on creating a diverse and inclusive learning environment; using innovative, effective teaching methods; and addressing important challenges of the 21st Century in the classroom and through institutional practices. The theme of sustainability is critical to our global future and is central to the values, vision and economic interests of our students, state and region. Addressing this vital issue is a key priority of our plan and will become a signature focus for this campus.

To fulfill our vision we must collaborate with a broad range of community partners in addressing workforce needs, as well as local and global challenges. Closer community ties will enable us to better understand the skills and programs students and employers need, while enriching the education of our students by providing real-world opportunities to learn from and give back to local communities.

The seven priorities for the 21st Century Campus Initiative are:
• Growth
• Resourcefulness
• Diversity
• Student-Centered
• Community
• Innovation
• Sustainability

III. Admission
Admission Policy
The University of Washington Bothell seeks students who can benefit from its wealth of academic and cultural opportunities and will contribute to the campus environment. Choosing students from an academically talented group of applicants requires a selection process that looks beyond grades and standardized tests.

While grades and standardized tests are important, they tell only part of an applicant’s story. UW Bothell uses a holistic application review process to identify well-rounded and highly qualified applicants by learning more about each student’s story. In addition to grade-point average (GPA) and test scores, the University takes into account many aspects of an applicant’s achievements and personal history. Factors considered include rigor of curriculum; grades and test scores; activities or accomplishments; educational goals; life experiences, such as growing up in an unusual or disadvantaged environment; family educational background and socioeconomic status; special talents; and cultural awareness. The list is not exhaustive, and the factors
are not of equal weight; moreover, no single factor is sufficient to confer admission.

**Special Admissions and the Appeal of Admission Decisions**

Applicants with disabilities are encouraged to enclose with their application a statement describing their disability. If appropriate, certain admission requirements may have substitutions authorized. For further information, please contact Rosa Lundborg at drs@uw.edu or (425) 352-5307.

Applicants who are unable to meet the minimum admissions requirements because of special circumstances are encouraged to meet with an Admissions Advisor. UW Bothell is committed to providing access and ensuring each applicant receives a fair review.

An applicant who wishes to appeal the admission decision and be considered under special admission procedures may do so by writing a letter of petition to the Assistant Vice Chancellor for Enrollment Management. Please contact the Office of Admissions for further information at (425) 352-5000 or info@uw.edu.

**How to Apply**

Application to the UW Bothell campus is a separate process from application to the Seattle or Tacoma campuses and requires submission of a separate online application, transcripts, and other required records and documents. Students must apply online at [https://www.applyweb.com/uwbf/](https://www.applyweb.com/uwbf/).

**First Year Applicants**

A first year applicant is one who has not earned college-level credit following the summer of his or her high school graduation (including students with Running Start, IB, AP, and College in the High School credit).

**First Year Admission Requirements**

1. Minimum cumulative GPA of 2.0
2. Successful completion of the College Academic Distribution Requirements [CADRs]
3. Official SAT (with Writing section) or ACT (with Writing section) scores*
   *scores are valid for a maximum of 5 years

**Application Checklist**

1. Completed application, including required writing assignments
2. Non-refundable application fee ($60 domestic students, $75 international students)
3. Official high school transcript(s) if one of the following applies:
   a. online course work grid within the application not completed
   b. high school outside the United States
   c. already graduated from high school
   d. homeschooled
4. Official transcripts from each college (if applicable).
5. Official SAT (with Writing section) or ACT (with Writing section) scores
6. Proof of English language proficiency (if required; see the section English Language Proficiency Requirement for more information)

**College Academic Distribution Requirements (CADR)**

In accordance with Washington Student Achievement Council (WSAC) requirements and to ensure that students entering UW Bothell are adequately prepared to succeed in college, all first year applicants are required to complete a minimum level of preparation in six subject areas through high school or college course work prior to entering the University.

A passing grade must be received in all core subject requirements. This includes a Pass in a course taken on a Pass/Not Pass basis.

**English Composition/Literature: 4 Years**

*If taken in high school:

Four years of study are required, at least three of which must be in college-preparatory composition or literature.

- One of the four years may be satisfied by courses in drama as literature, public speaking, debate, journalistic writing,
business English, or English as a Second Language (ESL).

- Courses that are generally not acceptable include those identified as remedial or applied (e.g., acting, basic English skills, developmental reading, library, newspaper staff, remedial English, review English, vocabulary, yearbook/annual).

NOTE: English courses taken in another country are considered equivalent to ESL unless taken in Australia, Canada, Ireland, New Zealand, the United Kingdom, or the United States.

- International Applicants: Four high school years of Composition and/or Literature courses in the student’s native language will satisfy this requirement.

If made up through college course work:
College course work must be at the 100 level or higher. For the composition/literature component, generally any course with an English or Writing prefix is acceptable.

- One of the four years may be satisfied by a college course in speech, drama as literature, journalistic writing, business English, ESL, or engineering/technical writing.
- Courses such as developmental or speed reading, vocabulary, or remedial English are not acceptable.

Mathematics: 3 Years
If taken in high school:
Three years of study are required, at least at the level of algebra, geometry, and second-year algebra.

- An algebra course completed in the last year of junior high school may partially satisfy the requirement if the second-year algebra is completed in secondary school.
- Arithmetic, pre-algebra, business math, and statistics will not count toward the requirement.

If made up through college course work:
If your high school preparation in mathematics was insufficient, you must complete one of the courses listed below:

- A course in intermediate algebra - The course must be completed with a grade of 'C' (2.0) or better, even though it does not transfer to the UW Bothell as college credit and the grade earned in the course is not used in computing the transfer GPA.
- MATH 104 (Trigonometry) or its equivalent - The course must be completed with a grade of 'C' (2.0) or better.
- MATH 107 (Mathematics: A Practical Art) or its equivalent - The course must be completed with a grade of 'C' (2.0) or better.
- Mathematics courses with intermediate algebra as a prerequisite - This includes any higher-level math courses such as elementary functions, calculus, and beyond (NOTE: Courses in statistics, logic, or computer science do NOT satisfy the mathematics requirement).

Social Studies: 3 Years
If taken in high school:
Three years of study are required in history or in any of the social sciences (e.g., anthropology, contemporary world problems, economics, geography, government, political science, psychology, sociology).

- Credit for religion courses, consumer economics, student government, or community service will not count towards the requirement.

If made up through college course work:
Courses in the social sciences - e.g., anthropology, economics, ethnic studies, history, philosophy, political science, psychology, sociology - will count toward the requirement.

Science: 2 Years of lab-based science
If taken in high school:
A minimum of two years of lab science is required. One of the two years must be in an algebra-based science course.

If made up through college course work:
College level transferable science courses with a lab will count toward this requirement. At least one course must be completed in an algebra-based science course with a lab experience.
**World Languages: 2 Years**  
**If taken in high school:**  
Two years of study are required. The two years must be completed in the same language.  
- The world language requirement will be considered satisfied for applicants who complete their education through the seventh grade in school(s) a) where English was not the language of instruction and b) in countries other than Australia, Canada, Ireland, New Zealand, the United Kingdom, and the United States.  
- International applicants who entered the U.S. education system prior to the seventh grade must satisfy the world language requirement.  
- Any natural language that has been formally studied may be used to satisfy this requirement, including American Sign Language (AMESLAN, the language of the deaf community), and languages no longer spoken, such as Latin and ancient Greek. However, neither computer 'languages' nor forms of deaf signing aside from AMESLAN are acceptable.  
- A world language course taken in the eighth grade may satisfy one year of the requirement if the second-year course is completed in high school.

**If made up through college course work:**  
For purposes of admission, each quarter of language in college is considered equivalent to one year in high school. Applicants who have never studied a world language will need to complete ten quarter credits of a single world language. However, an applicant who studied a world language for one year in high school needs to complete only the second five (5) quarter credits (e.g., FREN 102) or the second three (3) semester credits of a first-year language sequence in college. Of course, you may prefer to begin with 101 to refresh your memory.

**Fine, Visual, or Performing Arts: 1/2 Year**  
**If taken in high school:**  
One-half (0.5) year or one trimester of study is required in the fine, visual, or performing arts, to be chosen from art appreciation, band, ceramics, choir, dance, dramatics performance and production, drawing, fiber arts, graphic arts, metal design, music appreciation, music theory, orchestra, painting, photography, print making, or sculpture. Courses generally not acceptable include architecture, color guard, creative writing, drafting, drill team, fashion design, world languages, interior design, sewing, speech, web design or graphics, woodworking, and yearbook.

**If made up through college course work:**  
Two quarter credits (or 2 semester credits) chosen from any of the following subjects will satisfy the requirement:  
- Art, art history, cinema/filmmaking, dance, music, or photography;  
- Any course in drama except drama as literature courses.  
Courses in architecture are generally not acceptable, except for those in architectural history.

**Senior Year Math-Based Quantitative Course: 1 Year**  
**If taken in high school:**  
One year of math-based quantitative course work is required in the senior year. Any of the following courses will meet this requirement if taken during 12th grade:  
- The third-year level of math, such as intermediate algebra (Algebra II)  
- The fourth-year level of math, such as pre-calculus, math analysis, or calculus  
- A math-based quantitative course (statistics)  
- An Algebra-based science course  
* Algebra based lab science may count towards both the lab science requirement and the quantitative requirement.

**If made up through college course work:**  
College courses in math (e.g., pre-calculus) or algebra-based science will meet this requirement.

**Electives in CADR Subjects: 1/2 Year**  
**If taken in high school:**  
One half (0.5) year of study is required. Academic electives are courses in any of the six subject areas (defined above) beyond the minimum number of years specified above.
If made up through college course work:

Three quarter credits (2 semester credits) chosen from the six subject areas described above count toward this requirement.

In general, five quarter credits (or three semester credits) in a college-level course equal one year of high school study. If you completed a portion of the CADR requirements via high school course work, you can complete the balance of the requirement via college course work. A college course may be used to satisfy both an admission CADR requirement and a UW Bothell graduation requirement.

Grading Restrictions

In general, you must attain at minimum a passing grade (a 1.0/D grade* is considered a passing grade) to satisfy a College Academic Distribution Requirement (CADR). Please note that the Intermediate Algebra requirement is an exception to this statement and must be met with a 2.0 (C grade) at minimum. Also acceptable is a grade of 'Pass' in a course taken on a 'Pass/Not Pass’ basis. However, if you are completing CADR’s through college course work you are strongly encouraged to choose a letter or numerical grade, because you may later want to apply the course(s) towards requirements for your major and/or University graduation requirements, for which grading restrictions pertain.

* This is the absolute minimum grade for a CADR to be allowed and does not reflect the grades required of a competitive applicant to UW Bothell.

Advanced Placement and International Baccalaureate Credit

UW Bothell will award college credit for students who receive the required minimum scores on Advanced Placement and International Baccalaureate exams. Minimum exam scores vary based upon subject area; please review the website for detailed information.

Running Start, College in the High School, and Tech Prep

UW Bothell will review credits earned through Running Start, College in the High School, and Tech Prep for transferability. An official transcript from the college must be submitted to UW Bothell before the credits can be considered.

Homeschooled Students

UW Bothell welcomes homeschooled students to apply for admission. Homeschooled students are expected to meet CADRs, submit official SAT or ACT test scores, and submit an official transcript documenting all course work studied between grades 9 - 12.

Homeschooled applicants must present a homeschool transcript that includes course titles of each subject studied, duration of study, a short description of content, and grade or assessment of performance. Preferably, courses completed at home would adhere to a nationally recognized homeschool curriculum.

Homeschool course work in the four CADR subject areas listed below must also be validated through testing (No testing is required for social studies or arts.) Homeschooled first year applicants must submit official test scores by the January 15 application date.

English Composition/Literature - Covered by SAT or ACT with Writing

Mathematics - Covered by SAT or ACT with Writing

Science - Covered by ACT sub score. If using SAT for admission, further validation is required.* Only one exam in chemistry, biology or physics is required.

Foreign Language - Further validation required*.

*SAT Subject Tests, ACT subscores, Advanced Placement exams, International Baccalaureate exams

Please note:

- UW Bothell cannot provide minimum required scores, as each homeschooled applicant presents a unique case. Each applicant is assessed holistically in the context of a comprehensive record.
CADRs completed at a college or high school do not require further validation; however, official transcripts are required.

Transfer Applicants

A transfer applicant is one who has attended a college or university after high school graduation (summer excluded) but has not yet earned a bachelor’s degree (Students who have already earned a bachelor’s degree should apply as a post-baccalaureate student).

Transfer Admission Requirements

1. Minimum 2.0 GPA in College transfer course work/Secondary-level course work
2. Core Subject Requirements
3. Test scores (if applicable)

Application Checklist

1. Completed application, including required writing assignments
2. Non-refundable application fee ($60 domestic students, $75 international students)
3. Official high school transcript(s)
4. Official transcript(s) from any colleges/universities attended
5. Official SAT (with Writing section) or ACT (with Writing section) scores for domestic applicants with fewer than 40 transferable credits.
6. Proof of English language proficiency (if required; see the section English Language Proficiency Requirement for more information)

Students applying directly to majors must complete additional requirements to be considered for admission. Applicants are encouraged to consult www.uwb.edu/admissions/transfer for further details.

CADR and Core Subject Requirements

To be considered for admission, applicants with fewer than 40 transfer credits are required to complete a minimum level of preparation in six subject areas of the CADR through high school or college course work prior to entering the University. Applicants with more than 40 transfer credits must complete minimum university core subject requirements.

If CADR or a university core subject requirement was not completed in high school, it must be completed at a college level before enrolling at UW Bothell. In general, five quarter credits (or three semester credits) in a college-level course equal one year of high school study. If you completed a portion of the core requirements via high school course work, you can complete the balance of the requirement via college course work. A college course may be used to satisfy both an admission requirement and a UW Bothell graduation requirement.

All transfer applicants must have a minimum cumulative GPA of 2.0 to be considered.

University Core Subject Requirements

<table>
<thead>
<tr>
<th>Subject</th>
<th>If completed in high school</th>
<th>If completed in college</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics</td>
<td>3 years including completion of Intermediate Algebra</td>
<td>Completion of Intermediate Algebra with minimum GPA of 2.0.</td>
</tr>
<tr>
<td>World Languages</td>
<td>2 years of the same language</td>
<td>10 credits of same language or completion of 102 level.</td>
</tr>
</tbody>
</table>

Please note: An academic associate degree does not automatically satisfy the core subject requirements.

College Academic Distribution Requirements (CADR)

<table>
<thead>
<tr>
<th>Subject</th>
<th>If completed in high school</th>
<th>If using college credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 years</td>
<td>5 credits of English Composition is equivalent to 1 year of high school</td>
</tr>
<tr>
<td>Subject</td>
<td>If completed in high school</td>
<td>If using college credit</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 years including completion of Intermediate Algebra</td>
<td>Completion of Intermediate Algebra with minimum GPA of 2.0</td>
</tr>
<tr>
<td>Social Science</td>
<td>3 years</td>
<td>5 credits of course work is equivalent to 1 year of high school course work</td>
</tr>
<tr>
<td>World Languages</td>
<td>2 years of the same language</td>
<td>10 credits of same language or completion of 102 level</td>
</tr>
<tr>
<td>Science</td>
<td>2 years of lab science, including one year of algebra-based science</td>
<td>10 credits (5-credits must be algebra-based)</td>
</tr>
<tr>
<td>Fine, Visual, or Performing Arts</td>
<td>.5 years</td>
<td>2 credits</td>
</tr>
</tbody>
</table>

See the CADR section in the UW Bothell General Catalog for more detailed information on these requirements.

**Grading Restrictions**
In general, you must attain at minimum a passing grade (a 1.0/D grade* is considered a passing grade) to satisfy a College Academic Distribution Requirement (CADR) or a Core Subject Requirement. Please note that the Intermediate Algebra requirement is an exception to this statement and must be met with a 2.0 (C grade) at minimum. Also acceptable is a grade of 'Pass' in a course taken on a 'Pass/Not Pass’ basis. However, if you are completing CADR or core subject requirements through college course work you are strongly encouraged to choose a letter or numerical grade, because you may later want to apply the course(s) towards requirements for your major and/or University graduation requirements, for which grading restrictions pertain.

*This is the absolute minimum grade for a CADR/Core Subject requirement to be allowed and does not reflect the grades required of a competitive applicant to UW Bothell.

**Applicability of Transfer Credit to Degree Requirements**
The Office of Admissions has the authority to make decisions on transfer of credit to the University and the application of transfer credits to fulfill university core subject, general education and proficiency requirements. Academic program offices have the authority to determine application of transfer credits to fulfill major requirements. During the first quarter of enrollment, a student should meet with an academic advisor to plan a program of study and learn how their transfer credits will apply towards degree requirements.

**Academic Credit**
The guidelines governing the awarding of undergraduate transfer credit at UW Bothell are listed below. In general, it is University policy to accept credits earned at institutions fully accredited by the regional accrediting association, provided that such credits have been earned through university-level courses (see exceptions below). For courses taken at a Washington community college, the Bothell campus follows the listing of transferable courses published in the UW Transfer Guide: http://admit.washington.edu/Requirements/Transfer/Plan/EquivalencyGuide.

UW Bothell will accept up to 90 lower-division transfer credits (100 and 200 level courses). Courses equivalent to 300-level or higher at UW Bothell do not count toward the 90 lower-division credit limit. Students can petition their program to transfer additional credits beyond 90 lower-division to apply toward their major. No more than 135 transfer credits (lower or upper division) may be accepted to count toward a bachelor's degree.

**Notable Restrictions on Transfer Credit**
College in the High School
Additional credit restrictions may apply when students enrolled in high school have been awarded college-level credit by a college or university other than the UW, and the course work was completed on the high school campus rather than the college campus. Contact the Office of Admissions for more information.

Community College Credit
A maximum of 90 transferrable lower-division credits from community college course work may be applied toward the credits required for the bachelor's degree. All lower division credit transferred from other institutions may be used toward graduation requirements, but a student must still complete at least 90 credits of course work at the UWB or at another baccalaureate-granting institution (see also Senior Residency Requirement). Think of transfer courses as a "bank account" from which to draw. All of a student's transferable lower division courses remain in the bank to be applied toward specific degree requirements.

Distance Learning
Up to 90 credits earned in correspondence courses, offered by the Distance Learning division of UW Educational Outreach, may be applied toward a UW degree. However, such credits may not be applied toward the 45 credits required for the Final Year Residence Requirement.

Extension Credit from Other Schools
No more than 45 credits earned as extension credit from other schools may be applied toward a UW degree. Military credit, discussed below, is included in the 45 extension credit limit.

Guidance/Personal Development
A maximum of 3 credits is awarded for courses in this area as part of the 15 credits allowed for vocational/technical courses (see below).

Vocational/Technical Credits
A maximum of 15 vocational/technical quarter credits may be awarded. Courses in this category are those which would ordinarily provide specialized training for an occupation (e.g., allied health, bookkeeping, electronics, or physical therapist assistant). When allowed, these credits will apply only toward the elective credit component of a baccalaureate degree at UW Bothell. Such courses are not included in the Transfer GPA.

ROTC Credit
Credits earned in first- and second-year military training courses may not be counted in the basic 180 credits that are required for graduation. Some third- and fourth-year courses may count, depending on the institution the student attended previously.

Military Credit
Credits earned in Armed Forces Training Schools (AFTS) and through USAFI and DANTES may not exceed 30 credits and are included in the 45 extension credit limit. Official transcripts or DD-214 or DD-295 forms must be submitted, and credit will not be awarded until after the student has enrolled. Scores received in such course work are not included in the transfer GPA. No credit is awarded for Military Occupational Specialty (MOS) programs. Regionally accredited military schools are evaluated under the same guidelines as all other regionally accredited two and four year schools.

Out-of-Sequence Courses
Credit is not awarded for prerequisite courses in mathematics or world languages completed after a more advanced-level course has been completed. For example, students will not be awarded credit for Spanish 102 if it was taken after Spanish 103.

Physical Education
No more than 3 quarter credits will be allowed for physical education activity courses.

Repeated Courses
The Transfer GPA is calculated using the repeat policy of the home institution. In the case that a student takes a course at one college, and then repeats it at another college, and then transfers to the UW, the most recent grade will be included in the transfer GPA calculation.

Senior Residency Requirement
The University generally requires that at least the last 45 of final 60 credits of a baccalaureate degree be completed in residence at the UWB.
Courses receiving no credit
The University reserves the right to deny credit for courses that are not compatible with those offered in its baccalaureate degree programs. Some general categories of courses never receive transfer credit. Examples include:

- Courses below college level (numbered below 100 or development classes, e.g. English 100)
- Repeated courses or courses with duplicate subject content will only receive credit once
- Course work earned at an institution that did not hold at least candidacy status with its regional accrediting association when the course work was taken
- Courses that provide instruction in a particular religious doctrine
- Math courses below college level (e.g. basic math, elementary and intermediate algebra)
- Courses offered for non-credit continuing education units
- Remedial English (e.g., reading, vocabulary development, grammar, speed reading, or any courses that are preparatory to an institution’s first Freshman Composition course)
- Courses providing instruction in English as a Second Language (100-level and above)
- Remedial courses in any academic discipline (100-level and above)
- Lower division military science courses
- Non-academic/vocational-technical courses beyond the 15 credit limit

Staff in the Office of Admissions can assist applicants who are uncertain about the proper admission category.

Returning Students
A returning student who has been away for more than one quarter (excluding summer) is required to complete and file a Returning Student Enrollment Application. Students should contact their previous academic program to verify any additional requirements. A returning undergraduate is required to pay a non-refundable $60 application fee by the application priority date. Returning non-matriculated students are enrolled as space permits.

Non-matriculated Students
Non-Matriculated status is used by non-degree seeking students at the Bothell campus. Although a student enrolled at the Bothell campus in a non-matriculated status cannot earn a degree in that status, a grade is earned and full credit is awarded and recorded on the student’s UW transcript. Credits earned by a non-matriculated student usually transfer to other institutions. If a student is later accepted into a matriculated status at the Bothell campus, courses earned as a non-matriculated student may be applied to undergraduate degree requirements, with some restrictions: a maximum of 90 credits earned through correspondence and/or extension programs may be applied toward the bachelor’s degree, and the last 45 credits of a baccalaureate degree must be earned as a matriculated student in residence at the Bothell campus.

Post-baccalaureate Students
Post-baccalaureate is a matriculated status at the University of Washington. At the Bothell campus, post-baccalaureate students are those who have completed one or more bachelor’s degrees and are working toward another bachelor’s degree. Such students are admitted to an undergraduate program on the same basis as other applicants. The application of previous courses toward graduation requirements will be determined by program faculty and advisors.

Special Categories for Undergraduate Admission

Matriculated Students
New students at the UW Bothell, seeking their first undergraduate degree, are normally admitted as either undeclared/pre-major or to a specific academic program as matriculated students. Applicants should be sure to use the correct application form and indicate the appropriate category for their requested status at the Bothell campus. The application is available online.
International Applicants

An international student is an applicant who is not a United States citizen or permanent resident and plans to attend a college, university, or other post-secondary education institution in the U.S. This includes applicants that hold U.S. visas as students, exchange visitors, or other nonimmigrant classifications.

International students who have not completed any college credit after completing secondary school should apply as an international first year student. Please see the section First Year Applicants for more information about applying as a first year student.

International students who have completed college course work after completing secondary school, regardless of the amount of credits earned, should apply as an international transfer student. Please see the section Transfer Applicants for more information about applying as a transfer student.

International students who have completed one or more bachelor’s degrees and are working toward another bachelor’s degree should apply as an international post-baccalaureate student.

International Transcripts

The UW Bothell Office of Admissions provides the service of international transcript evaluations. Upon request, applicants may be required to obtain a third party evaluation or translation from an approved agency. It is the responsibility of the applicant to arrange for the third party transcript evaluation, if required.

Financial Statement

All international students are required to submit a Declaration of Finances along with an official bank statement dated within six months of the application period. In order for the University’s International Student Services Office to process the I-20, international students must submit documentation verifying they have sufficient funds to attend the University.

English Language Proficiency Requirement

All applicants for whom English is a non-native language must provide proof of English language proficiency by providing scores that meet the University’s minimum on one of the following exams or through one of the alternative options listed below. This includes international students and domestic students who completed most of primary and secondary outside the U.S.

Note: Determining the English language proficiency requirement is at the discretion of UW Bothell.

English Language Proficiency Exams:

<table>
<thead>
<tr>
<th>Exam Title</th>
<th>Minimum Scores for University Admissions Consideration</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOEFL - internet based</td>
<td>92*</td>
</tr>
<tr>
<td>TOEFL paper-based</td>
<td>580</td>
</tr>
<tr>
<td>International English Language Testing System (IELTS)</td>
<td>7.0</td>
</tr>
</tbody>
</table>

*A TOEFL score of 90 or 91 combined with a cumulative GPA of 3.4 or higher is allowed in place of a TOEFL score of 92 (except for applicants applying to Computer Science and Software Systems programs). (Note: A higher score may be required by some academic departments.)

UW Bothell's Institution Code for the TOEFL is 9964. TOEFL and IELTS scores are only valid for 2 years

Alternative Options for the English Language Proficiency Requirement

OPTION #1

90-Credit Option (must meet all four requirements)*:

1. Have earned a minimum of a 2.75 cumulative GPA AND
2. Have earned a minimum grade of 3.0 in the equivalent of English Composition (UW Engl 131) (e.g., English 101) from a U.S. regionally accredited institution **AND**
3. Have earned a minimum grade of 3.0 in the equivalent of Writing from Research (UW Engl 182) (e.g., English 102) from a U.S. regionally accredited institution **AND**
4. Completed 90 college-level credits from a U.S. regionally accredited institution

**NOTE: We strongly recommend completion of English Composition (UW Engl 131) and Writing from Research (UW Engl 182) at the time of application.**

*Computer Science and Software Systems applicants have different requirements.*

**OPTION #2**
Completion of the University of Washington Bothell's Accelerated Intensive English Program (A-IEP). This program is for students who do not meet our English language proficiency requirement, but have a minimum TOEFL iBT score of 65, IELTS of 5.5, or have successfully completed level 3 of UW Seattle's Campus Intensive English Program (C-IEP).

**A-IEP Admission Requirements**

<table>
<thead>
<tr>
<th>Qualifying Test or Score</th>
<th>AIEP Level 4</th>
<th>AIEP Level 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOEFL</td>
<td>65</td>
<td>76</td>
</tr>
<tr>
<td>IELTS</td>
<td>5.5</td>
<td>6</td>
</tr>
<tr>
<td>C-IEP (Successful completion with 80% or higher) *</td>
<td>LEVEL 3</td>
<td>LEVEL 4</td>
</tr>
</tbody>
</table>

* C-IEP students who repeat C-IEP Level 3 or Level 4 cannot be admitted to A-IEP.

**Only valid for one year after successful completion of A-IEP.**

**OPTION #3**
The University of Washington Bothell has partnered with the University of Washington Seattle Campus Intensive English Program (C-IEP). This program is for students who do not meet the minimum English language proficiency requirement(s) for admission but are otherwise admissible.

A minimum grade of 80 percent is required in each course and students must obtain a recommendation from the Senior Director of the UW Seattle English Language Programs. After successful completion of the UW Seattle Intensive English Program requirements, applicants do not have to submit TOEFL, IELTS, or other standardized test scores as proof of English language proficiency to UW Bothell.

*Only valid for one year after successful completion of C-IEP.*

**OPTION #4**
Completion of a minimum of four years of high school English in the United States with grades of 3.0 or higher and a minimum SAT critical reading score of 500 or an ACT English score of 20.

*Exception: Non-U.S. citizens whose primary and secondary education took place in Australia, Canada, Ireland, New Zealand, the United Kingdom or the United States are exempt from this requirement. Students who were born in one of these countries but were educated elsewhere are still required to satisfy the English proficiency requirement.*

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**Graduate**

The University of Washington Graduate School is responsible for determining the requirements for admission to graduate study. Within the limit imposed on overall enrollment in the Bothell campus, admission to a specific graduate program is limited to the number of students for whom faculty, staff, and facilities can provide graduate instruction and research guidance of high quality. Each graduate student must be admitted into a specific graduate program. The Graduate School does not permit general graduate enrollment.

**Graduate Admission Procedure**

Admission to the Graduate School is granted by the dean of the Graduate School. Application for admission is made to the Office of Graduate Admissions. The prospective student must hold a baccalaureate degree from an accredited college or university in this country or its equivalent from a foreign institution. Each applicant must submit a completed University of Washington application form and application fee. The applicant must arrange for
the receipt of scores on the Graduate Record Examination, Graduate Management Admission Test, or an alternative test approved by the Graduate School Council, and official transcripts from all previously attended colleges, universities and institutes. Each department or other unit authorized to offer a graduate degree program maintains a Graduate Admissions Committee consisting of not fewer than three faculty members. The committee receives from the Office of Graduate Admissions all completed applications for admission to the unit. The Admissions Committee is responsible for the fair and complete evaluation of applicants and for recommending to the dean of the Graduate School the names of applicants who are considered to be qualified for admission.

Priority for admission of applicants into a graduate degree program is based upon the applicant’s apparent ability, as determined by the University, to complete the program expeditiously with a high level of achievement and also upon the applicant’s promise for success in his or her subsequent career. In addition, Graduate School admission policy requires that:

No practice may discriminate against an individual because of race, color, national origin, disability, sex, age, religious preference, creed, sexual orientation, marital status, or background, or status as disabled veteran or Vietnam era veteran.

And that:

Sustained efforts are made to recruit qualified students who are members of groups that have been subject to discrimination or are underrepresented in certain disciplines.

Graduate Admission Policy
In developing a pool of qualified applicants for admission to the Graduate School, the following factors may be taken into account by a degree-offering unit:

1. Undergraduate grades, especially for subjects in or closely related to the field of the applicant’s proposed graduate work (at least a B, or 3.00 grade-point, average is expected).

2. The applicant’s consistency in proceeding through an undergraduate degree program.

3. Scores on the Graduate Record Examination’s verbal, quantitative, and analytical tests, the GRE advanced test or other tests related to the applicant’s field, and on other aptitude tests that may be required.

4. Personal interviews of the applicant by the department admissions committee.

5. The career objectives of the applicant and the extent to which the graduate degree program may be expected to prepare him or her for those objectives.

6. Written and oral recommendations from persons who are qualified to evaluate the applicant’s academic record and promise.

7. The applicant’s degree objective. Weight given to these factors may vary among academic units. Admission to the Graduate School for enrollment at the Bothell campus signifies admission into a program of graduate study leading to a master’s degree. Doctoral degrees are not offered at the University of Washington, Bothell.

Graduate Enrollment Limitation
Total graduate enrollment at the University of Washington Bothell is determined by the University administration, as part of overall Bothell enrollment, in furtherance of University intent to maintain proportions of graduate students and other categories of students appropriate to the role of the University in its particular setting. First preference in enrollment is given to continuing graduate students (i.e., those who have already been admitted into a graduate program, who are in good standing, and who have maintained continuous enrollment as in-residence, in-absentia, or on-leave students). After continuing graduate students are accommodated, the remaining places are available for the enrollment of new students or the re-enrollment of former students who have not maintained continuous enrollment.

The foregoing dates and procedures apply to new students and visiting students as well as to former students of the University of Washington who have not attended since receiving their baccalaureate degrees. A former student must apply as a new student for admission to the Graduate School.
Under certain circumstances, University of Washington students, who are within 6 credits of completing their undergraduate work and who have met the requirements for admission to the Graduate School, may register the quarter immediately preceding admission to Graduate School for up to 6 credits in 500 level courses, in addition to the last six credits that are required of undergraduate work. This registration and these arrangements must be approved by the graduate program that the student is entering. However, students so enrolling are not reclassified as graduates until the baccalaureate degree has been granted and after their official admission to the Graduate School. At that point, it is necessary to petition the Graduate School to permit the six credits to apply toward the master's degree. Only under these circumstances may graduate work, taken as an undergraduate, be applied toward an advanced degree. Further registration for graduate work is contingent upon completion of the requirements for the bachelor's degree.

When all required documents have been received, an evaluation is made and the applicant is notified of his or her admission status. An offer of admission is valid only for the quarter indicated. Applicants, who wish to be considered for a different quarter, must file a new application and fee with the Office of Graduate Admissions. Admissions credentials of applicants, who do not register for the quarter to which they have been admitted, are normally retained for a period of one year from the quarter of application. At the end of this period credentials on file are discarded unless the applicant has notified the Office of Graduate Admissions of a continued interest in attending the University.

**Special Categories for Graduate Admission**

**Visiting Graduate Students**

A student who wishes to enroll in the Graduate School at the University of Washington, Bothell, and, who intends thereafter to return to the graduate school in which he or she is working toward an advanced degree, may be admitted as a visiting graduate student. This admission is contingent on available space and facilities. Such a student must have been officially admitted to another recognized graduate school and be in good standing and currently pursuing a graduate degree. Admission to the University of Washington, Bothell, as a visiting graduate student, does not guarantee admission to any particular course of study. A visiting graduate student is permitted to register only in those courses for which he or she is judged to be eligible by a faculty advisor or the instructor of the course, and if space is available to accommodate registration. Further details regarding application and other relevant policies may be obtained from the Office of Graduate Admissions at the Seattle campus of the University.

**Graduate Non-matriculated**

Graduate Non-matriculated (GNM) defines a student status at the University as designed to provide access to graduate courses for qualified post-baccalaureate individuals who are not at the present time seeking an advanced degree but who may later want to apply these credits toward a degree. All applicants must be evaluated by the graduate unit in which the student seeks this status, and be judged qualified to do graduate level work in the courses to which they seek entry.

Applicants to the GNM status must contact the academic unit directly for application information. (Not all departments offer GNM status.) Departments will counsel students regarding the status and provide instructions, application forms, and department requirements to appropriate candidates.

GNM students are limited to a total of 12 credits in each program to which they have been accepted. Please note, however, that should the student later be admitted to a master's degree program, a maximum of 12 GNM credits or any combination of GNM and transfer credits may be applied toward the degree.
IV. Tuition, Fees & Financial Aid

Tuition and Fees

Education Cost

The cost of a student's education at the University varies with individual circumstances. The amount charged for tuition and fees is set by the state and is indexed to the cost of instruction. Since inflation increases costs generally, the tuition and fee rates also increase each year. Consequently, accurate tuition charges for future quarters cannot be provided here. Since University costs are supported by state taxes, the rates charged to students who are not residents of Washington State are higher than the rates for residents.

The Office of Student Financial Aid estimates the amount of money that students in different family situations need to meet living expenses and to pay for school. They are based on surveys of students' costs, comparisons with other schools, input from housing and transportation agencies, and they reflect cost-of-living changes. They cover modest but adequate costs for most students attending this University. The figures listed below are the costs of attending the University of Washington for one academic year (a nine-month period: autumn, winter, and spring quarters).

<table>
<thead>
<tr>
<th>Lives with Parents</th>
<th>Traditional</th>
<th>Non-Traditional</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Student</td>
<td>Undergrad</td>
<td>Grad</td>
</tr>
<tr>
<td>Orientation*</td>
<td>$250</td>
<td>$250</td>
</tr>
<tr>
<td>Books</td>
<td>$1,206</td>
<td>$1,206</td>
</tr>
<tr>
<td>Room &amp; Board</td>
<td>$3,483</td>
<td>$3,483</td>
</tr>
<tr>
<td>Personal</td>
<td>$2,265</td>
<td>$2,265</td>
</tr>
<tr>
<td>Transportation</td>
<td>$1,524</td>
<td>$1,524</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$8,728</strong></td>
<td><strong>$8,478</strong></td>
</tr>
</tbody>
</table>

*First quarter only

Traditional: All single, undergraduate students without dependents (spouse or children) who are living away from parent's home; undergraduate married students without children whose spouses are also students.

Non-Traditional: All graduate/professional students; undergraduates who have children; married undergraduates whose spouses are not also enrolled. Registered same-sex domestic partners may request consideration for additional living costs and will need to provide information about their partners’ financial resources when they make the request.

<table>
<thead>
<tr>
<th>2014-2015 Tuition Rates</th>
<th>Resident</th>
<th>Non-Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>$11,911</td>
<td>$33,030</td>
</tr>
<tr>
<td>Graduate Tier I</td>
<td>$15,813</td>
<td>$27,861</td>
</tr>
<tr>
<td>Graduate Tier II (MAPS, MACS, M.Ed)</td>
<td>$16,200</td>
<td>$28,443</td>
</tr>
<tr>
<td>Graduate Nursing</td>
<td>$16,200</td>
<td>$28,443</td>
</tr>
<tr>
<td>Business Masters' Programs</td>
<td>$23,202</td>
<td>$28,935</td>
</tr>
<tr>
<td>Business Masters' Programs 2nd year</td>
<td>$22,977</td>
<td>$28,935</td>
</tr>
</tbody>
</table>

**Subject to change**

These are just some of the tuition rates charged at the University of Washington Bothell. Please review website for more information about tuition rates. Students enrolled in Fee Based Programs should check with their program office for details about course fees or program fees.

Tuition and Fees

Figures presented here are for full-time enrollment, i.e., 10-18 credits per quarter; however, for purposes of financial aid eligibility, full-time is defined as 12 or more credits for undergraduate students and 10 credits for graduate students.

Tuition is due quarterly by Friday of the third week of the quarter.

Fee-based Programs

For fee-based degree programs offered through UW Bothell, the tuition rate is charged per credit at a different rate than listed in the Catalog and registration is administered through a partnership with UW Professional Continuing Education. Prospective and current students should contact the program advisor for details.

Enrollment Confirmation Deposit

A new or returning former transfer student, or continuing student in a new classification, is required to confirm his or her intention to enroll by paying a nonrefundable $100 Enrollment Confirmation
deposit for undergraduate students and $250 deposit for graduate students (not required of students admitted Summer Quarter). The fee is applied toward tuition and fees assessed for the quarter for which the student is determined to be admitted, and subsequently enrolls. A student who pays the fee for a given quarter, but does not register in that quarter, is not entitled to a refund except in the situations listed below:

1. A new or returning matriculated student who is unable to obtain courses that are applicable to the requirements of the degree or certificate program to which the student has been admitted, and who does not enroll in or attend other courses, is refunded the Enrollment Confirmation deposit upon written request to the Admissions Office. Petitions should include a statement from an appropriate academic advisor certifying that no such courses are available. Petitions must be submitted by Friday of the second week of the quarter.

2. A new or returning matriculated student who, after meeting with an appropriate academic advisor, determines that the program for which admission was granted differs substantially from what the student was led to expect, based upon earlier available information, is refunded the enrollment confirmation deposit upon written request to the Admissions Office. Such a request for refund must be submitted before the student registers for courses, and, in no case, later than the first day of the quarter for which admission has been granted.

3. A new or returning student who applies by the prescribed deadline for financial aid, administered by the University Office of Student Financial Aid, and who cannot be awarded financial aid adequate to his or her needs as determined by that office, and who is therefore unable to attend the University, is refunded the enrollment confirmation deposit upon application to the Admissions Office no later than two weeks after receipt of notice of the financial aid award.

4. A new or returning student who is unable to attend the University because of pregnancy, disability, or death, or because of being called involuntarily into the military service of the United States, or into civil duty, is refunded the amount, if any, by which the enrollment confirmation deposit exceeds the amount of tuition and fees assessed at the time of withdrawal. Requests for refund must be submitted in writing to the Admissions Office by the last day of the quarter for which the student was determined admissible and for which the enrollment confirmation deposit has been paid. Appropriate documentation is required.

New Student Enrollment and Orientation Fee
The NSEOF is a mandatory, one-time fee for $250 that all entering undergraduates pay to fund services received as a new student at the UW Bothell. Several transition programs are funded entirely or in part by the NSEOF including the Freshman Advising & Orientation program.

Fee Payment
An obligation to pay tuition and fees in United States dollars is incurred when a student registers. Student's official University of Washington tuition statement is online, no bills will be mailed. An email is sent to the student's email address on MyUW each quarter when the statement is ready.

The tuition due date is always the third Friday of the quarter. Payments must be received by the Bothell Cashier's Office no later than 3:00pm on the tuition due date. If you do not pay your tuition by the due date, you will be assessed a late payment charge based on the amount of your outstanding balance. For past due balances of $250 and above, the late fee is $120. For balances between $50 - $249.99, the late fee is $50. There is no late payment charge for balances under $50.

You may petition the late payment charge through the Office of the Registrar if you feel this fee was
charged in error. Your petition will be approved or denied based on the circumstances.

If you have not paid your outstanding balance by the end of the late payment period, a hold will be placed on your academic records. Unpaid balances will be forwarded to collections after the conclusion of the quarter.

**Tuition Payment Plan**
This plan is best for students who are not on financial aid, and who want or need to spread their payments over several pay periods. One-third of the anticipated tuition, plus a $10 service charge, is due on the first Friday of the quarter, along with the application form, which can be found at the Cashier’s office. The remaining balance of tuition is divided into two equal payments, due the third and fifth Friday. Late fees of $55 each will be assessed for each payment not in the Cashier’s Office by 5:00 PM on the due date, postmarks will not be accepted.

**Technology Fee**
The Student Technology Fee is designed to provide funds for the improvement of technology used by students at UW Bothell. The UW Bothell Student Technology Fee Committee (STFC) determines the expenditures of the fee. Students of UW Bothell lead the committee and the committee allocates money for technology resources for general student use, pursuant to RCW 28B.15.051 and the agreement between the Associated Students of the University of Washington Bothell (ASUWB), and the Board of Regents.

**Parking and UPass**
Parking at UW Bothell is $6 for all day or $3.00 for three hours, payable in advance at the pay stations. Quarterly parking permits for faculty/staff/students are available online at bothellcampus.thepermitstore.com. The UPass is your ticket to ride Metro, Community Transit, and Sound Transit service anytime, anywhere. The UPass for students is available through your MyUW account or at the UWB Cashier’s Office after the 7th day of the quarter.

**Special Course and Laboratory Fees**
Some courses have extraordinary expenses associated with them, and, in such cases, the University may charge additional fees in amounts that approximate the added instructional or laboratory costs.

**Late Registration**
A late registration service charge of $25 is assessed a student granted permission to register after the last scheduled day of Period II registration and through the 10th day. Students registering after the 10th day pay a $75 late registration fee.

**Change of Registration Fee**
A charge of $20 is made for any number of add and/or drop transactions processed during a given day beginning the second week of the quarter.

**Transcript Fee**
A charge of $9, payable in advance at the Bothell Cashier’s Office, is required for each transcript. Please contact the Office of the Registrar for ordering information.

**Cancellation of Tuition**
Registered students must pay full tuition and fees. Tuition may be canceled or reduced if a student makes an official withdrawal or drops a course during the period specified by state statute. Refunds are given when a cancellation or reduction results in an overpayment.

**Fee Forfeiture**
A student who does not completely withdraw, but who is dropping one or more courses, may be eligible for lower tuition, depending on the total number of credits remaining, after the course drop, and on the time period when the drop was made. Tuition for students making a course drop on or before the seventh class day is determined by the total credits remaining. Tuition for students making a course drop after the seventh class day, through the 30th calendar day of the quarter, is computed on the total credits remaining, plus one-half the difference between the old tuition and the new tuition. There is no cancellation or reduction in tuition for courses dropped after the 30th calendar day of the quarter.
Fee Refund
When a fee payment is made by check, a waiting period is required before a refund can be authorized. An application for refund may be refused, unless it is made during the quarter in which the fees apply. A student who withdraws for disciplinary reasons forfeits all rights to refund or cancellation of any portion of his or her fees.

Residence Classification Requirement
Residence classification information is available in the Office of the Registrar.

Veterans and Children of Totally Disabled or Deceased Veterans
Information on educational benefits and special exemption programs for veterans and their dependents is available in the Office of Special Services. Veterans and members of the armed forces who apply for admission to any campus of the University are subject to the same minimum requirements, as are regular students, and are expected to enroll in accordance with University requirements. The University complies with the standards of progress as required by the Department of Veterans Affairs and the State Approving Agency.

Financial Obligations
The comptroller is authorized to place a hold (administrative) on the records of any student who fails to pay amounts due to the University. Until this hold is cleared, the University (1) does not release the student’s record or any information based on the record, (2) does not prepare transcripts or certified statements, and (3) denies registration as well as graduation from the University. In cases of serious financial delinquency, the comptroller, with the consent of the Registrar, may order that a student’s registration be canceled and that privileges of attendance be withdrawn. Tuition and fees not paid by the end of the academic quarter are subject to an interest charge of 1 percent per month or a fraction thereof (12 percent APR), beginning the month following the end of the quarter.

An administrative hold or cancellation also may occur when a student has not complied with other University rules, procedures, or obligations. The hold may be placed on the student’s record by the authorized University office responsible for enforcement of the rule, procedure, or obligation involved. The student is not permitted to register for any subsequent quarter, or to obtain a transcript of his or her record, or a certified statement, except on the written release of the office that placed the hold.

Tuition Exemptions
The University of Washington Tuition Exemption Program, established under the authority of RCW 28B.15.558, enables University of Washington employees and State of Washington employees who have been admitted to the University of Washington, to have tuition waived for up to six credits each quarter provided that they register on a "space-available" basis. The Tuition Exemption Program is available at the University of Washington Seattle, Bothell, and Tacoma campuses. Those who enroll at the UW on a "space-available" basis for more than six credits will receive the tuition waiver for the first six credits and will pay a per credit charge for the credits taken over six.

Financial Aid
The UW administers many federal, state, and institutional financial aid programs to help students pay for their education. There are four basic types of aid: grants, scholarships, loans, and work study. Grants and scholarships do not have to be repaid. Loans must be repaid after graduation or withdrawal from school. The work study program gives students a chance to work part-time, either on or off campus. A Financial Aid Counselor is available on site at the UW Bothell campus to assist with a students’ financial aid needs.

What is financial need?
For most aid programs, financial need is defined as the difference between what it costs to attend school and what the student can afford to pay.
The amount a student should be able to pay is determined by a standard, federally mandated need-analysis methodology. The methodology establishes whether a student is financially dependent on his or her parents and, if so, what the family should be able to contribute. It also takes into account the family size, number in college, total income from the previous calendar year, a percentage of net assets, and all other resources. There is no income cutoff or other simple method of determining whether a student will qualify for need-based financial aid. Any student who thinks he or she needs help should apply.

Our office will review and may recalculate your expected family contribution. If a student/parent has a change in their financial situation while in school, the student should notify the Financial Aid office to request a re-evaluation of their eligibility.

Applications and Deadlines
To receive financial aid you must meet all eligibility criteria as defined by federal, state and institutional rules. The Free Application for Federal Student Aid (FAFSA) is the basic application for financial aid. The application is available on-line at www.fafsa.ed.gov beginning in January. The annual deadline for priority consideration is February 28, and applies to all quarters of the upcoming academic year. This date refers to the receipt date of the FAFSA whether mailed or electronically transmitted. It does not refer to the date the student mails or transmits the FAFSA. The Financial Aid office recommends that students complete the FAFSA by February 15th to ensure delivery to the federal processor by the priority deadline. You must list the University of Washington (federal code #003798, same for all three campuses) as one of the colleges to receive the results of your FAFSA. If your FAFSA is received after Feb. 28, you will be considered a late applicant and are only considered for limited types of aid. Students must reapply every academic year.

Students who apply for financial aid should stay in touch with the financial aid counselor, and should notify the Financial Aid office of any changes which may impact their award. Financial aid office at University of Washington Bothell can be reached by phone: 425.352.5240 or e-mail finaid@uwb.edu.

Eligibility for Financial Aid
To qualify for aid an applicant must:
- Be a U.S. citizen, permanent resident or other eligible non-citizen
- Be admitted to the University in a degree program (correspondence and non-matriculated students are not eligible for student aid)
- Not be delinquent or in default on a previous student loan or owe a repayment on a federal grant
- Provide financial information
- Maintain satisfactory progress in a course of study
  http://www.uwb.edu/financialaid/satisfactory-academic-progress

Scholarships
Students enrolled, or planning to enroll, at the UW Bothell may be eligible to apply for scholarships. There are many sources of information for scholarships and other funding opportunities. Many of these resources are designed to help students identify which scholarships best match their qualifications. Each student must research the scholarships available and find those that best match their skills, experience, interests, and goals.

Visit our scholarship website, http://www.uwb.edu/financialaid/scholarships, to find out more information about researching and applying for UW Bothell and external scholarship opportunities.

We encourage all currently enrolled students to apply.

V. Policies and Procedures

Registration

Full-time Requirements
You should register for 12 or more credits to be considered full-time if you are an undergraduate student. If you are a graduate student, you should
register for 10 or more credits. It is important to note that differing criteria and standards for full-time enrollment exist for eligibility in certain programs. Consult the Financial Aid Office for its requirements on satisfactory student progress. To be classified as a half-time student by the University, an undergraduate must register for and complete at least 6 credits per quarter. A graduate student must register for and complete 5 credits per quarter.

Class Attendance
If you do not attend regularly scheduled class meetings during the first week of the quarter, you are subject to being dropped at the discretion of the program to allow enrollment space for other students. Do not assume that departments will automatically drop you from the course if you do not attend. If you are not going to go to class, you should drop the course on MyUW. Students who are registered for a course but do not attend will be assigned a failing grade by the instructor. You may not attend a University course in which you have not been officially registered after the first two weeks of the quarter.

Registration tampering
A student who tampers or attempts to tamper with the registration records of another student, including but not limited to dropping and adding courses, may be subject to disciplinary sanctions as defined in the Student Conduct Code (WAC 478-120).

Registration Abuse
Web registration is a personal service. The use of robots and other automated tools to submit registration requests is expressly forbidden.

Registration Eligibility
Newly admitted students and students readmitted to the same or a new classification (e.g., undergraduate, post-baccalaureate, graduate), or admitted to a different University campus, are eligible to register in Registration Period II after their enrollment confirmation deposit has been received.

Math Placement Policy
The Academic Placement Testing Program (APTP) is a cooperative program of Washington State public colleges and universities. Students who wish to register for Mathematics classes at UWB are advised to take the Math Placement Test. All Math classes numbered above BCUSP 121 require placement via the test OR a qualifying grade from the prerequisite College Level math class, or qualifying COMPASS test scores. Students may find the most current information about Math Placement Testing on the UWB campus and any policy changes at http://www.uwb.edu/cusp/mathplacement, or by calling the CUSP Advisors at 425-352-3427.

Cross-Campus Registration
All students enrolled at one UW campus may register for courses at another UW campus on a space-available basis, starting on the first day of Registration Period II for Autumn, Winter and Spring quarters. In Summer quarter, cross-campus enrollment is allowed in Period I as well.
Freshmen must earn a minimum of 25 credits at UW campuses before cross campus registration is permitted. All other students must earn a minimum of 15 credits at UW campuses before cross campus registration is permitted. Non-matriculated students are also not allowed to enroll cross-campus. This includes non-matriculated students taking courses under the UW staff or Washington State tuition exemption. Students may not be admitted and enrolled at separate campuses simultaneously. Double degrees or majors will not be permitted to cross campus lines, and majors will be restricted to a single campus. However, students who earn a minor at the alternate campus may have that minor recorded with the degree on the transcript at graduation.

A maximum of 45 credits earned through cross-enrollment may count toward a bachelor's degree. (Graduate students are limited to 12 credits.) This restriction is not monitored, so there is no restriction to the number of credits a student may complete by cross-enrollment; only to the number that may count toward a degree. If there are excess cross-enrollment credits, the program or school adviser should note this on the application for graduation. DARS is not programmed to know at which campus courses are completed, so a DARS audit will not point out excess cross-enrollment credits.

Note that this 45-credit limit applies only to credits taken at one UW campus while enrolled at another. A student who attends one UW campus and then is admitted to another UW campus may count toward a bachelor's degree any number of credits transferred from the first UW campus to the second (see below).

Cross-Campus Enrollment Administrative Details
The home campus is responsible for administrative and disciplinary issues. Hardship withdrawal petitions for all courses will be reviewed by the student's home campus. Student activity fees are credited to the student's home campus. Students are eligible for student activity fee-supported services only at their home campus. Only Seattle-campus students are eligible to participate in intercollegiate athletics.

Restrictions on Attending Classes
No person, other than a faculty member attending informally with the approval of the instructor, may attend a University course in which that person has not been registered.

An instructor may allow a student to attend his or her class only if the student's name is on the official class list from the Office of the Registrar. An unregistered student may attend through the fourteenth calendar day of the quarter, if the student is on an official wait list for the course.

Quarter-Off Policy
Undergraduate students who have completed a quarter at the UW Bothell may take the following quarter off, and remain eligible to register in Registration Period I for the subsequent quarter, without reapplication as a returning student. Any quarter from which a student has completely withdrawn, or from which he or she is canceled, does not constitute a completed quarter. Summer Quarter enrollment is not required to maintain continuous registration eligibility. The quarter-off policy is not available for graduate students.

Dropping a Course
Students dropping a course during the first two weeks of a quarter shall have no entry on their permanent academic transcript. If all courses are dropped, then a "withdrawn" designation is recorded on the transcript.

A course drop made during the third through the seventh weeks of the quarter is recorded on a student's transcript with a W grade and a number designating the week of the quarter in which the course drop was transacted. Only one drop is permitted from the third through the seventh week of the quarter for each academic year (Autumn through Summer quarter).

A student who does not drop a course officially through MyUW or in person at the Office of the Registrar is given a grade of 0.0.

Students receiving or applying for financial aid should check with the financial aid counselor before
dropping a class because it may affect financial aid eligibility.

**Dropping all courses for the quarter**

It is the student's responsibility to withdraw completely if he or she is unable to attend. Students may withdraw through MyUW (through the 7th week of the quarter) or at the Office of the Registrar. An official withdrawal is effective the date of the last drop through MyUW, the date it is received in the Office of the Registrar, or if submitted by mail, the date of the postmark.

Tuition owed will be based on the date the complete withdrawal is received. No withdrawals are accepted after the last day of instruction for the quarter. Students withdrawing on or before the seventh calendar day of the quarter do not pay tuition.

New and returning students forfeit their $100 enrollment confirmation deposit. Students who drop classes between the 8th & 30th calendar days of the quarter receive a refund of one-half of the tuition reduction associated with the drop. This is in addition to the $20 Late Change of Registration Fee.

Students who drop classes after the 30th calendar day of the quarter receive no reduction in tuition and will also be charged a $20 Late Change of Registration Fee.

The following principles apply to complete withdrawal from the University:

Courses dropped as part of a complete withdrawal from the University during the first two weeks of a quarter are not recorded on the student's UW transcript; however, the date of the complete withdrawal is recorded.

Students are required to turn in their student identification cards when they withdraw from the University and are not eligible to continue using University services or facilities after their withdrawal.

A student with a scholarship or loan awarded through the University should notify the Financial Aid Counselor of withdrawal.

**Hardship Withdrawal**

Hardship withdrawals may occur after the second week of the quarter. A student may file a petition with the Office of the Registrar for a hardship withdrawal, if the student is unable to complete a course because of a severe mental or physical disability, or because unusual or extenuating circumstances, beyond the student's control, prevented the student from dropping the course by the drop deadline. Hardship withdrawal forms are available in the Office of the Registrar.

**Satisfactory Progress**

If a student is pursuing a baccalaureate degree, he is expected to make satisfactory progress toward the attainment of that degree and is expected to enter a major and graduate after completion of a reasonable number of credits.

**The 105-Credit Rule**

Undergraduates must declare a major by the time they have earned 105 credits or a hold will be placed on their registration until they either declare a major, or meet with an adviser and receive a pre-major extension.

**The 210-Credit Rule**

The University's satisfactory progress policy requires students to complete their undergraduate degree programs within 30 credits beyond the minimum required for the degree. Because most degrees require 180 credits, students generally must complete their programs by the time they earn 210 credits.

**Grades**

**Undergraduate Grading System**

UW Bothell uses a numerical grading system. Instructors may report grades from 4.0 to 0.7 in 0.1 increments and the grade 0.0. The number 0.0 is assigned for failing work or unofficial withdrawal. Grades in the range 0.6 to 0.1 may not be assigned. Grades reported in this range are converted by the
Office of the Registrar to 0.0. Numerical grades may be considered equivalent to letter grades as follows:

### Undergraduate Grading Scale

<table>
<thead>
<tr>
<th>Letter</th>
<th>Numerical Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0 - 3.9</td>
</tr>
<tr>
<td>A-</td>
<td>3.8 - 3.5</td>
</tr>
<tr>
<td>B+</td>
<td>3.4 - 3.2</td>
</tr>
<tr>
<td>B</td>
<td>3.1 - 2.9</td>
</tr>
<tr>
<td>B-</td>
<td>2.8 - 2.5</td>
</tr>
<tr>
<td>C+</td>
<td>2.4 - 2.2</td>
</tr>
<tr>
<td>C</td>
<td>2.1 - 1.9</td>
</tr>
<tr>
<td>C-</td>
<td>1.8 - 1.5</td>
</tr>
<tr>
<td>D+</td>
<td>1.4 - 1.2</td>
</tr>
<tr>
<td>D</td>
<td>1.1 - 0.9</td>
</tr>
<tr>
<td>D-</td>
<td>0.8 - 0.7</td>
</tr>
</tbody>
</table>

Lowest passing grade.

<table>
<thead>
<tr>
<th>Letter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Failure or unofficial withdrawal. (No credit earned)</td>
</tr>
<tr>
<td>X</td>
<td>No grade has been turned in</td>
</tr>
</tbody>
</table>

**The following letter grades also may be used:**

- **N** - Indicates that the student is making satisfactory progress and a final grade will be given at the end of the quarter the work is completed. Used only for hyphenated courses (courses not completed in one quarter) and courses numbered 600, 601, 700, 750, and 800.

- **I** - Incomplete grades may be awarded only if the student is doing satisfactory work up until the last two weeks of the quarter. Undergraduate students must not re-register for courses in which they have received an Incomplete, since a grade earned in a repeat course will not be recorded as an Incomplete conversion grade.

To obtain credit for the course, an undergraduate student must convert an Incomplete into a passing grade no later than the last day of the next quarter. An Incomplete, not made up by the end of the next quarter, will be converted to the grade of 0.0 by the Registrar, unless the instructor has indicated, when assigning the Incomplete grade, that a grade other than 0.0 should be recorded, if the incomplete work is not completed. The original Incomplete grade is not removed from the transcript. An instructor may approve an extension of the Incomplete removal deadline by writing to the Office of the Registrar, no later than the last day of the quarter, following the quarter in which the Incomplete grade was assigned. Extensions, which may be granted for up to three additional quarters, must be received before the Incomplete has been converted into a failing grade.

In no case can an Incomplete, received by an undergraduate, be converted to a passing grade after a lapse of one year.

- **S** - Satisfactory grade for courses taken on a satisfactory/not-satisfactory basis. An S grade is automatically converted from a numerical grade of 2.0 or above for undergraduates. The grade S may not be assigned directly by the instructor, but is a grade conversion by the Office of the Registrar. S/NS graded courses may not be used to satisfy major or general education requirements. S is not computed in GPA calculations.

- **NS** - Not-satisfactory grade for courses taken on a satisfactory/not-satisfactory basis. A grade less than 2.0 for undergraduates is converted to NS. NS is not included in GPA calculations. No credit is awarded for courses in which an NS grade is received.

- **CR** - Credit awarded in a course offered on a credit/no credit basis only, or in courses numbered 600, 601, 700, 750, and 800. The minimum performance level required for a CR grade is determined, and the grade is awarded directly, by the instructor. CR is not computed in GPA calculations.

- **NC** - Credit not awarded in a course offered on a credit/no-credit basis only, or in courses numbered 600, 601, 700, 750, and 800. The grade is awarded directly by the instructor and is not included in GPA calculations.

- **W** - Official withdrawal or drop from a course from the third through the seventh week of the quarter for undergraduates. A number designating the week of the quarter is recorded with the W, when a course is dropped. It is not computed in GPA calculations.

- **HW** - Grade assigned when an undergraduate is allowed a hardship withdrawal from a course after the fourteenth calendar day of the quarter. It is not computed in GPA calculations.
X - An instructor may submit a grade of "X" for a student if, for whatever reason, the student's grade is not available when the grades for the class are submitted. The X grade is also recommended for pending student conduct cases. The student does not receive credit for the course until a numerical grade is turned in. Also, if an instructor has not turned in any grade by the time grade reports are printed, an "X" will be recorded until the grade is submitted. If the instructor never turns in a grade, the X remains on the transcript. The GPA is not affected and no credit is granted.

Nontraditional Grading Options:

Credit/No Credit-Only as a Course Option
With appropriate departmental review and approval, a course may be offered on a credit/no credit-only basis. The standard for granting credit in credit/no credit-only courses, under this option, is the demonstration of competence in the material of the course to the instructor's satisfaction.

Satisfactory/Non-Satisfactory Grading Option
An undergraduate may earn up to 25 elective credits, of the 180 minimum credits required for graduation, on a satisfactory/non-satisfactory (S/NS) basis. S/NS graded courses may not be used to satisfy major or general education requirements. Each instructor shall report numeric grades to the Registrar, who shall convert satisfactory grades (2.0 or greater) to S, and non-satisfactory grades (less than 2.0) to NS for the student's transcript. S/NS shall not be considered in computation of the grade-point average.

The student may indicate at the time of registration if she or he elects to take a course on an S/NS basis. The student can change to and from an S/NS option, through the seventh week of the quarter, through electronic registration. There is no limit to the number of S/NS credits that a student can register for in a given quarter. Withdrawal from an S/NS course is subject to the same regulations as for any other course.

Grade-point average
The cumulative grade-point average is based solely on courses taken in residence at the University of Washington.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 498</td>
<td>3</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>BIS 300</td>
<td>5</td>
<td>2.9</td>
<td>14.5</td>
</tr>
<tr>
<td>BIS 343</td>
<td>5</td>
<td>3.2</td>
<td>16.0</td>
</tr>
</tbody>
</table>

Total credits earned toward graduation is 10
Total graded credits attempted is 13
Grade-point average: 30.5 / 13 = 2.35
The total graded credits attempted, not the credits earned toward graduation, are used in computing the grade-point average.

Example 2:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIS 325</td>
<td>5</td>
<td>2.3</td>
<td>11.5</td>
</tr>
<tr>
<td>BIS 463</td>
<td>5</td>
<td>2.9</td>
<td>14.5</td>
</tr>
<tr>
<td>BIS 313</td>
<td>5</td>
<td>1.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Total credits earned toward graduation is 10
Total graded credits attempted is 15
Grade-point average: 26.0 / 10 = 2.60

The student attempted 15 credits, but only 10 are graded, because the I is not computed in the grade-point average.

Computation of grade-point average
The grade-point average for graduation is computed by dividing the total cumulative grade points by the total credits attempted for courses taken in residence at the University. Grade points are calculated by multiplying the number of credits by the numeric value of the grade for each course. The sum of the grade points is then divided by the total credits attempted. Courses elected on an S/NS basis are counted as follows: Satisfactory grades are printed on the permanent record as an S and do not count in the quarterly or cumulative grade-point average, but they do count as credits earned toward graduation. Not-satisfactory grades, NS, do not count in the quarterly and cumulative grade-point averages and do not count as credits earned toward graduation.

Example 1:

<table>
<thead>
<tr>
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<td>BIS 343</td>
<td>5</td>
<td>3.2</td>
<td>16.0</td>
</tr>
</tbody>
</table>

Total credits earned toward graduation is 10
Total graded credits attempted is 13
Grade-point average: 30.5 / 13 = 2.35
The total graded credits attempted, not the credits earned toward graduation, are used in computing the grade-point average.
point average. If the work in BIS 313 is not made up by the end of the quarter, the "I" will convert to a numeric grade of 0.0, and the grade-point average will be recomputed. When the grade of 0.0 is received, it is computed in the grade-point average, but no credit is awarded toward graduation.

Repeating Courses
With the approval of the academic department offering the course, an undergraduate may repeat a course once. Both the original grade and the second grade are computed in the GPA but credit is allowed only once. Veterans receiving benefits must receive approval from the Office of Special Services before a course is repeated.

Courses considered to have been taken once include any with a numerical grade or those with grades of I, CR/NC, or S/NS. Withdrawn or dropped courses and courses with X or no grade reported will not count as the first taking of a course. If you are currently enrolled in a course, registration for the same course in the following quarter will be counted as a repeat registration.

Departments may restrict undergraduates from repeat registration into courses. Restrictions may include:

- Only allowing registration after Period I
- Only allowing registration after the quarter has begun, or
- Requiring an Entry Code for a repeat registration

A second repeat (taking a class for a third time [or more]) cannot be done using MyUW. A second repeat requires the department to register you into the course. Grades in the third or subsequent takings will not be included in the grade-point average (GPA).

Grading Procedures
Change of Grade: Except in case of error, no instructor may change a grade that he or she has turned in to the Registrar. A student who finds administrative omissions or errors in a grade report must make application to the Registrar for a review, not later that the last day of the student’s next quarter in residence, but in no case after a lapse of two years. Grades used to meet graduation requirements cannot be changed after the degree has been granted. Time spent in military service is not counted as part of the two-year limitation. Students are not automatically notified of grade changes posted after the first of the quarter.

Grade Appeal Procedure
A student who believes he or she has been improperly graded first discusses the matter with the instructor. If the student is not satisfied with the instructor's explanation, the student may submit a written appeal to the director of the student's academic program with a copy of the appeal also to the instructor. The director consults with the instructor to ensure that the evaluation of the student's performance has not been arbitrary or capricious. Should the director believe the instructor's conduct to be arbitrary or capricious, and the instructor declines to revise the grade, the director, with the approval of the voting members of his or her faculty, shall appoint an appropriate member, or members, of the faculty of that department, to evaluate the performance of the student and assign a grade. The Vice Chancellor of Academic Affairs should be informed of this action.

Once a student submits a written appeal, this document, and all subsequent actions on this appeal are recorded in written form for deposit in a department or college file.

Grade Reports
Grades are available through MyUW at the end of each quarter.

University Policy on Student Education Records
A copy of the University’s policy on a student’s right to inspect his or her education records and the University’s responsibility to maintain the confidentiality of such records are available at reference stations on campus (e.g., Office of the Chancellor and the Library).

Scholarship - Undergraduate Level
Academic Standards
Students are expected to meet the traditional standards of honesty and truthfulness in all aspects of their academic work at UW Bothell. In particular,
all work submitted to an instructor in fulfillment of course assignments, including papers and projects, written and oral examinations, and oral presentations and reports, must be free of plagiarism. Plagiarism is using the creations, ideas, or words of someone else without formally acknowledging the author or source, through appropriate use of quotation marks, references, and the like. Student work in which plagiarism occurs will not ordinarily be accepted as satisfactory by the instructor and may lead to disciplinary action against the student submitting it. Any student who is uncertain whether his or her use of the work of others constitutes plagiarism should consult the course instructor for guidance before formally submitting the course work involved.

Low Scholarship

Academic Warning
An undergraduate student whose grade-point average falls below 2.00 in his or her first quarter at the University, receives an academic warning. If a cumulative grade-point average of at least 2.00, for courses earned in residence at the University, is not achieved by the end of the next quarter, he or she is placed on academic probation.

Probation and Dismissal for Low Scholarship
An undergraduate student is placed on academic probation at the end of any quarter (except for the first quarter at the University, when an academic warning is issued), in which his or her cumulative grade-point average falls below 2.00. Once on probation, the student must attain at least a 2.50 for each succeeding quarter's work, until the cumulative grade-point average is raised to a 2.00, or the student is dropped for low scholarship.

Reinstatement
A student who has been dropped under low scholarship rules will be readmitted to the University upon review of a reinstatement petition submitted to their program office. A student readmitted, after being dropped under these rules, reenters on academic probation. The student's grade-point average is the same as when dropped from the University, and the student may not use grades from other colleges or universities to raise his or her UW grade-point average. A readmitted student is dropped if he or she fails to attain either a 2.50 grade-point average for the following quarter's work, or a cumulative UW grade-point average of 2.00 at the end of that quarter. The student is removed from probation at the end of the quarter in which a cumulative grade-point average of 2.00 or better is reached.

Senior in Final Quarter
A senior who has completed the required number of credits for graduation, but whose work in what would normally be his or her final quarter places him or her on probation, does not receive a degree until removed from probation.

High Scholarship

Quarterly High-Scholarship List
The quarterly high-scholarship list includes the names of matriculated undergraduate students who have attained a quarterly grade-point average of 3.50 in the final grades for at least 12 graded credits. Appropriate high-scholarship entries are made on the student's permanent academic record.

Yearly Undergraduate Honors
The yearly award for high scholarship is received on the academic transcript of students who have achieved the following:

A cumulative grade-point average of 3.50 in at least three quarters of the academic year (Summer, Autumn, Winter, Spring)

12 graded credits or more for each of the three quarters, exclusive of Satisfactory/Not Satisfactory (S/NS) and Credit/No Credit-only (C/NC) courses.

Students who have attended the UW four quarters of the school year (Summer through Spring) must have a grade-point average of 3.50 for each of any three quarters, a minimum of 12 graded credits (exclusive of S/NS and C/NC courses) for each of the three quarters, and a cumulative GPA of 3.50 for the four quarters.

Graduate Grading System
In reporting grades for graduate students, units that offer graduate degrees use the system described herein. Grades are entered as numbers, the possible
values beginning at 4.0 and decreasing by one-tenth increments until 1.7 is reached. Grades below 1.7 are recorded as 0.0 by the Registrar and do not count toward residency, total credit count, or grade and credit requirements. A minimum grade of 2.7 is required in each course that is counted toward a graduate degree. A minimum GPA of 3.00 is required for graduation.

Correspondence between number grades and letter grades is as follows:

**Graduate Grading Scale**

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Number Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.0 - 3.9</td>
</tr>
<tr>
<td>A-</td>
<td>3.8 - 3.5</td>
</tr>
<tr>
<td>B+</td>
<td>3.4 - 3.1</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.9 - 2.5</td>
</tr>
<tr>
<td>C+</td>
<td>2.4 - 2.1</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.9 - 1.7</td>
</tr>
<tr>
<td>E</td>
<td>1.6 - 0.0</td>
</tr>
</tbody>
</table>

The following letter grades also may be used:

**I** - Incomplete. An incomplete may be given only when the student has been in attendance, has done satisfactory work to within two weeks of the end of the quarter, and has furnished proof satisfactory to the instructor that the work cannot be completed, because of illness or other circumstances beyond the student’s control. A written statement giving the reason for the incomplete, and indicating the work required to remove it, must be filed by the instructor, with the head of the unit in which the course is offered.

To obtain credit for the course, a student must successfully complete the work by the last day of the next quarter in residence. This rule may be waived by the dean of the college in which the course is offered. In no case may an incomplete be converted into a passing grade after a lapse of two years or more. An incomplete received by a graduate student does not automatically convert to a grade of 0.0, but will remain a permanent part of the student’s record.

**N** - No grade. Used only for hyphenated courses and courses numbered 600 (Independent Study or Research), 601 (Internship), 700 (Master’s Thesis), 750 (Internship), or 800 (Doctoral Dissertation). An N grade indicates that satisfactory progress is being made, but evaluation depends on completion of the research, thesis, internship, or dissertation, at which time the instructor or supervisory committee chair should change the N grade(s) to one reflecting the final evaluation.

**S/NS** - Satisfactory/Not Satisfactory. A graduate student, with the approval of the graduate program coordinator or supervisory committee chair, may elect to be graded S/NS in any numerically graded course for which he or she is eligible. The choice must be indicated at the time of registration or by the tenth day of the quarter. (As with all registration changes, a $20 change fee will be charged beginning the second week of the quarter.) Only in very unusual cases may S/NS grades be converted to numeric grades or vice versa. The instructor submits a numeric grade to the Registrar’s Office for conversion to S (numeric grades of 2.7 and above) or NS (grades lower than 2.7).

**CR/NC** - Credit/No Credit. With the approval of the faculty in the academic unit, any course may be designated for grading on the credit/no-credit basis by notice in the appropriate Time Schedule. For such courses, the instructor submits a grade of CR or NC to be recorded by the Registrar’s Office for each student in the course at the end of the quarter. All courses numbered 600, 601, 700, 750, and 800 may be graded with a decimal grade, CR/NC, or N at the instructor’s option.

**W** - Withdrawal. Official withdrawal from a course may be done on MyUW through the second week of the quarter. During the first two weeks of the quarter no entry is made on the permanent academic record. The third week through the seventh week of the quarter, a W, and week designation, is recorded on the transcript. Refer to the Time Schedule after the seventh week of the quarter.

**HW** - Hardship Withdrawal. Grade assigned when a graduate student is allowed a hardship withdrawal from a course after the second week of the quarter.

Unofficial withdrawal from a course shall result in a grade of 0.0.
The grades of W and HW count neither as completed credits nor in computation of the GPA.

Of the minimum number of credits required for a graduate degree, a graduate student must show numerical grades in at least 18 quarter hours of course work taken at the UW. These numerical grades may be earned in approved 400-level and 500-level courses.

The student may petition the Dean of the Graduate School to modify the procedures described above. The petition should be accompanied by comments and recommendations from the graduate program coordinator or supervisory committee chairperson.

Repeating Courses
Graduate students may repeat any course. Both the first and second grades will be included in the cumulative GPA. Subsequent grades will not be included, but will appear on the permanent record. The number of credits earned in the course will apply toward degree requirements only once.

Continuation or Termination of Students in the Graduate School
Admission to the Graduate School allows students to continue graduate study and research at the University of Washington only as long as they maintain satisfactory performance and progress toward completion of their graduate degree program. The definition of satisfactory performance and progress toward completion of the degree program may differ among degree offering units; therefore, it is imperative that each graduate unit have these requirements in writing and distribute them to each graduate student. The following information should be included:

General expectations for graduate student performance within the academic unit, including, but not limited to, required coursework and length of time allowed for completion of various phases of the program.

The identification of persons in departments, colleges, schools, and groups who are responsible for both the evaluation of graduate student progress and for informing students about the fulfillment of these requirements, and when such evaluations are to be made. Criteria by which performance and progress are to be evaluated, including areas which may or may not be negotiated.

Under what circumstances the graduate unit will recommend to the Dean of the Graduate School the alteration of a student’s standing—i.e., conditions that warrant probation and final probation (see Recommended Guidelines), and length of time the academic unit will tolerate unsatisfactory performance and progress.

Procedures for appealing evaluations recommended to the Graduate School by the graduate program.

Scholarship -Graduate Level
Review Process for Low Scholarship and Unsatisfactory Progress
Review of students who maintain a 3.0 grade point average (GPA) is at the discretion of the graduate program but is expected to be undertaken at least annually. Students whose cumulative or quarterly GPA falls below a 3.0 must be reviewed quarterly and be provided with a written explanation of performance expectations and a timetable for correction of deficiencies. Doctoral program students are to be reviewed by their doctoral Supervisory Committee, or by a committee of graduate faculty in the unit appointed or elected for this purpose in consultation with the student’s Supervisory Committee. Pre-doctoral or master’s students are to be reviewed by supervisory committees, if such committees have been appointed, or by the graduate faculty members who have been designated to oversee such students’ programs. See: Graduate School Memorandum No. 13, Supervisory Committees for Graduate Students, for an explanation of the role and responsibilities of supervisory committees.

In evaluating the student's performance and progress, all of the following should be reviewed:

- Performance in the fulfillment of degree program requirements.
• Maintenance of a minimum GPA of 3.0 cumulatively and for every quarter of coursework. Cumulative and quarterly GPA’s are computed on courses taken while the student is enrolled in the UW Graduate School. Computation is based only on courses numbered 400-599; courses graded I, S/NS, and CR/NC are excluded, as are the 600-800 series.

• Performance during informal coursework and seminars.

• Research capability, progress, and performance.

A determination of satisfactory performance and progress may be made upon review of the factors indicated above and consideration of the student’s progress relative to other students (part-time/full-time) in the program or to an individually negotiated schedule. Full or partial withdrawal from a quarter may be considered as failure to maintain satisfactory progress and a student may be dropped as a result if he or she was on final probation for the previous quarter.

When review of a student’s performance and progress result in a determination that it has been unsatisfactory, the name of the student and recommendation for action--i.e. probation, final probation, or drop--must be transmitted by the Graduate Program Coordinator or the head of the graduate program to the Dean of the Graduate School by the appropriate deadline dates. All recommendations of unsatisfactory performance and progress must be accompanied by a well-documented statement of the circumstances involved and evidence that the action requested is supported by the majority of the graduate faculty, delegated representatives, or supervisory committee involved. Students must receive written notification of this action which includes information regarding the necessary steps the student must take to maintain good standing in their graduate student status.

**Recommended Guidelines**

Below are guidelines to determine recommended action for unsatisfactory performance and progress. Recommendations for probation, final probation, and drop will be reviewed by the Dean of the Graduate School. Probation and final probation recommendations are noted on a student's unofficial transcript. In addition to notification from their graduate program, students will receive final probation and drop status letters from the Dean of the Graduate School.

Recommendations do not persist and must be reported to the Graduate School every quarter. No action will appear on the transcript for any subsequent quarter unless a new recommendation is made to the Dean of the Graduate School.

**No Action**

Recommended for those students whose cumulative GPA is above 3.0 but whose most recent quarter’s work is below 3.0, if the review has determined that this condition is not cause for immediate concern.

**Warn**

This status is initiated and documented by the graduate program, but is not reported to the Graduate School and does not appear on the student’s transcript. The graduate program is expected to notify each student in writing and place any documentation in the student’s file.

Recommended for students whose cumulative GPA has dropped slightly below 3.0--i.e. 2.99-2.95.

**Probation**

A graduate program may recommend numerous quarters of probation for a student, but the Graduate
School recommends no more than three consecutive quarters (each quarter must be recommended separately). All students must be informed of the graduate program's policy regarding the length of probationary periods.

Recommended for students who have not corrected the deficiency which caused the warn action within the time limit specified by the graduate program.

Recommended for students who depart suddenly and substantially from scholarly achievement as defined by the graduate program. (A previous warn recommendation is not necessary.)

**Final Probation**

After at least one quarter of probation, a graduate program may recommend final probation. Final probation may only be recommended for one quarter, though the Graduate School will consider one additional quarter in extenuating circumstances. A graduate program must recommend one quarter of final probation before recommending a student be dropped from the program. Exceptions to this policy will be considered by the Graduate School in extenuating circumstances.

**Drop**

A graduate program may recommend a student be dropped from their program after one quarter of final probation. Exceptions to this policy will be considered by the Graduate School in extenuating circumstances. If the Graduate School accepts a drop recommendation, the Registrar is notified by the Graduate School and the student is immediately removed from the graduate program.

This is the final action to be recommended for students who have not corrected the condition(s) that caused the final probation recommendation within the time limit specified by the graduate program.

**Appeals**

Students may appeal these recommendations directly to the Chair or Director of the graduate program. Appeals beyond this point must follow the process outlined in Graduate School Memorandum No. 33, Academic Grievance Procedure.

**Graduation Requirements**

**Graduation - Baccalaureate Level**

**Filing an application**

A UW Bothell student must make an appointment with the program office to complete a written application for graduation. The student should file three quarters before the expected date of graduation. The student's application and any supporting documents are processed upon completion of the appointment with the program office.

Because degrees are not automatically awarded when requirements have been satisfied, it is the student's responsibility to apply for a degree. The student's application and any supporting documents are processed upon completion of the appointment with the program office.

The application will be signed by the student, program advisor, and UW Bothell Registrar's Office. If a problem arises, the UW Bothell Registrar's Office, or the program office, will notify the student. Program advisors should notify the UW Bothell Registrar's Office if a course listed on the graduation application is substituted. If an applicant is ineligible to graduate because of a deficiency, the UW Bothell Registrar's Office will notify the student.

**Graduating Senior Priority**

Graduating seniors or post-baccalaureate students, may qualify for early registration for the upcoming quarter(s). To qualify, the student must file a graduation application no later than the third Friday of the quarter before they plan to graduate.

Students who qualify will receive Graduating Senior Priority status for no more than two quarters prior to graduation. If graduation is postponed, the student may postpone their priority quarter. When Graduating Senior Priority has been used for two quarters, the student will revert to regular senior priority.
Requirements for a Baccalaureate Degree
To graduate, a student must meet University requirements; college, school, or campus requirements; and department or program requirements. This section contains only University requirements. The graduation requirements for particular programs at the UW Bothell campus are explained in the catalog sections devoted to the academic programs.

Scholastic Standards Required
To be eligible for the baccalaureate degree, a student must earn a cumulative grade-point average of at least 2.00 for all work done in residence at the University. The graduation grade-point average is computed when the student has completed all work for the degree and includes only credits earned while in residence at the University.

Credits Required
To be eligible for graduation from the University, with the baccalaureate degree, a student must offer a minimum of 180 academic credits and satisfy all other specific requirements. The University of Washington Bothell has established minimum general education requirements for baccalaureate degrees. These minimum requirements are:

English Composition - 5 credits (A grade of 2.0 is required)
Additional Writing - 10 credits QSR - 5 credits
NW - 15 credits
VLPA - 15 credits
I & S - 15 credits
Diversity - 3 credits (can overlap with general education requirements above)*

*Diversity Requirement- courses which focus on the sociocultural, political, and economic diversity of human experience and help students develop an understanding of the complexities of living in increasingly diverse and interconnected societies.

Each University of Washington Bothell program has established requirements that meet or exceed these minimum requirements.

Limitation on ROTC Credits
Credits earned in first- and second-year military training courses cannot be counted in the basic 180 credits required for graduation.

Limitations on Physical Education Activity Credits
No more than three physical education activity credits can apply toward a degree.

Final-year Residence Requirement
To be recommended for a first, or subsequent, baccalaureate degree, a student must complete 45 of his or her final 60 credits as a matriculated student in residence at the campus of the University where the degree is being earned. The granting of exceptions to this rule is the responsibility of the dean of the school, college, or campus awarding the degree. If an exception is granted, the student still must present a minimum of 45 credits taken in residence as a matriculated student to be awarded a UW degree.

Catalog for Graduation Requirements
In general, a student graduates under the requirements of the current catalog. However, a student may fulfill graduation requirements noted in the catalog in effect at the time he or she entered the school or college from which he or she is to graduate, provided that (1) not more than ten years have elapsed since the student’s entry, and (2) the school, college or campus, and department or program agree that the student may graduate under the earlier requirements.

If the student graduates more than 10 years after enrolling in the school, college, or campus, the current catalog must be used for graduation purposes. Exceptions to this rule cannot be made without official University and Bothell campus approval.

Waiver of Graduation Requirements
A request for waiver of Bothell campus or University graduation requirements must be petitioned to the UW Bothell Registrar, who represents the General Faculty Organization at the University of Washington Bothell. Petition forms are available in the program office and should be filed with the application for the degree or as soon as possible after the need arises. A student should see his or her academic advisor to initiate a petition.
An exemption from an all-University graduation requirement, that is granted by the Registrar, becomes void at the end of two calendar years from the date such exemption is granted, if all degree requirements have not been completed within that period.

**Two Majors or Two Degrees**

**Second Baccalaureate Degree**
A second baccalaureate degree may be granted, but a student must earn a minimum of 45 credits beyond the number required for the first degree. These credits usually must be earned in residence, with the granting of exceptions to the residency rule being the responsibility of the college, school, or campus awarding the degree. The student must achieve no less than a 2.00 cumulative grade-point average in the credits required for the second degree.

**Degrees with Two Majors**
The student’s application for a baccalaureate degree, with two majors at the University of Washington Bothell, must show both majors and be approved by the academic advisors of both departments or programs. Both majors appear on the student’s transcript.

**Two Baccalaureate Degrees Concurrently**
Two baccalaureate degrees, associated with different majors at the University of Washington Bothell, may be granted at the same time. The total number of academic credits earned must reach a minimum of 45 credits in excess of the number required for the first baccalaureate degree.

**Graduation with Honors**
Baccalaureate honors are awarded upon graduation to undergraduates earning their first bachelor’s degree with at least 90 UW credits, of which at least 60 are numerically graded. Correspondence credits do not count as "UW credits.

These honors have nothing to do with whether the students are in either the departmental or college honors program. In addition, students who have earned quarterly and/or annual Dean’s List recognition do not necessarily qualify for baccalaureate honors.

All graduates earning baccalaureate honors are given a gold honor cord to wear in the Commencement ceremony. For students graduating in spring, the honors listed in the commencement program, as well as honor cord distribution, are based upon a student’s cumulative GPA as of the winter quarter, since spring grades are not available for this determination. Spring classes are ultimately included in the credit totals and GPA calculations for honors posted to the student’s final record.

The GPA's for baccalaureate honors are set each year for the following year (autumn through summer) by a subcommittee of the Faculty Council on Academic Standards, based on statistics for the current year provided by the Graduation and Academic Records Office. The GPA cutoffs have been different for each of the degree programs.

Faculty honor is awarded upon graduation to undergraduates earning their first bachelor’s degree and ranked in the top 10% of their respective program. Undergraduates must earn a minimum of 70 graded credits at UW Bothell with the exception of BSN students, who must earn a minimum of 43 graded credits. Undergraduates qualified for baccalaureate honors are not eligible to receive faculty honors.

The GPAs for faculty honors are determined each year for the following year (autumn through summer) by the UW Bothell Registrar’s Office, based on statistics for the current year. The GPA cutoffs may be different for each of the degree programs.

All graduates earning faculty honors are given a purple honor cord to wear in the Commencement ceremony and the honor is listed in the commencement program. Honor cord distribution is based upon a student’s cumulative GPA as of the winter quarter, since spring and summer quarter grades are not available for this determination. However, spring and summer courses are ultimately included in the credit totals and GPA calculations for honors and posted to the student’s final record.
Commencement
Formal commencement exercises are conducted at the close of Spring Quarter. During March of each year, commencement information is sent to each student entitled to participate the following June (i.e., those who graduate the previous December or March and those who anticipate graduating in the current June and August).

Diploma Distribution
Diplomas are available 8-10 weeks after the end of the quarter in which they are earned.

Graduation - Graduate Level
Requirements for a Graduate Degree

- A student must satisfy the requirements for the degree that are in force at the time the degree is to be awarded
- At least 36 credits must be completed
- All courses numbered 400-799 that are numerically graded 2.7 and above, or have a grade of Satisfactory or Credit ('S' or 'CR') count toward the 36 credit total. 499 courses are not counted in the 36 credit total.
- Courses graded less than 2.7 do not count towards the 36 credit total.
- At least 18 credits must be in courses numbered 500 and above.
- 18 credits must be numerically graded in department approved 400-level courses accepted as part of the major and in 500-level courses. This excludes 499 and transfer credits.
- No more than 6 graduate level quarter credits can be transferred from other academic institutions to count toward the 36 credit total.
- No more than 12 UW Graduate Non-matriculated credits can be applied to the 36 credit total.
- No more than 12 credits derived from any combination of UW Graduate Non-matriculated credits and transfer credits can be applied to the 36 credit total.

- If a student repeats a non-repeatable class, only one set of credits counts toward the 36 credit total.
- A minimum cumulative GPA (grade point average) of 3.00 is required for a graduate degree at the University
- The Master's Degree Request must be filed
- If the Master's Degree Request is filed during weeks ten and eleven it is not accepted. The system is closed.
- In summer quarter, the Master's Degree Request is filed in weeks eight and nine is not accepted. The system is closed.
- Must complete all degree requirements within six years
- The timeframe/clock begins on the first day of the quarter that the Graduate Student uses a course to satisfy degree requirements when he/she is coded as either a Graduate Non-Matriculated student (Department Code with class 6) or as a Graduate Student (Department code with class 8) in the department to which he/she is admitted.
- UW Graduate Non-matriculated credits used towards the 36 course credit total are counted in the six years.
- Quarters spent On-Leave and out of status are counted in the six years.
- Must maintain registration through the end of the quarter in which the degree is conferred or, if eligible, pay the Graduate Registration Waiver Fee within 14 days following the last day of the quarter in which all degree requirements were met.
- Thesis track students are required to take a minimum of 9 thesis credits in their 36 credit total.
- Thesis Track students are required to submit two copies of an acceptably
formatted thesis to the Graduate School by 5 pm on the last day of the quarter.

Graduate Study Policies
The following sections contain detailed information concerning policies and procedures relating to graduate students and graduate studies. See also the sections on Admission, Graduation, and Scholarship for other policies relating to graduate students. Students are advised to verify all information with the graduate program coordinator or appropriate staff.

Graduate Program Coordinator
The graduate student's initial work at the University is guided by the graduate program coordinator in his or her field. The coordinator must be a senior tenured member of the graduate faculty and is the official representative of the academic unit that offers the graduate degree program. The graduate program coordinator maintains familiarity with policies and procedures of the Graduate School and provides overall coordination of graduate activities within the unit.

Graduate Courses
Graduate courses are intended for, and ordinarily restricted to, either students enrolled in the Graduate School or graduate non-matriculated students, and are given numbers from 500 to 800. Some courses at the 300 and 400 levels are open to both graduates and upper-division undergraduates. Such courses, when acceptable to the supervisory committee and the Graduate School, may be part of the graduate program. The Graduate School accepts credit in approved 300-level courses for the minor or supporting fields only. Courses at the 300 level are not included in the calculation of grade-point average (GPA) and will not apply toward the minimum Graduate School requirement of 18 graded credits for the master's or doctoral degree. Approved 400-level courses are accepted as part of the major as well as minor or supporting courses. Courses numbered below 300 are not applicable to residence or course credit for advanced degrees.

Residence
The residence requirement for a master's degree is one year (three full quarters). Students registered for fewer than ten credits per quarter may add part-time quarters together to achieve the equivalent of one full-time quarter (ten or more credits) to be applied toward fulfilling residence requirements. However, excess credits beyond ten may not be subtracted from one quarter and added to another. Once a student is admitted to a graduate degree program, a full quarter of residence is granted for any quarter in which at least ten credits in graduate course, research, thesis, internship, or dissertation work are satisfactorily completed.

Enrollment Status
Final Quarter Registration
A student must maintain registration as a full- or part-time graduate student at the University for the quarter in which the master's degree is conferred. A student who does not complete all degree requirements by the last day of the quarter must be registered for the following quarter.

Continuous Enrollment and Official On-leave Requirement
To maintain graduate status, a student must be enrolled at least on a part-time or on-leave basis from the time of first enrollment in the Graduate School until completion of all requirements for the graduate degree. This includes applying for the master's
degree, the passing of the master's final examination, or final examinations, the filing of the thesis or dissertation, and the receiving of the degree. Summer Quarter on-leave enrollment is automatic for all graduate students who were either registered or on-leave the prior Spring Quarter. Failure to maintain continuous enrollment constitutes evidence that the student has resigned from the Graduate School.

A student's petition for on-leave status must be approved by the department graduate program coordinator or alternate no later than the fifth day of the quarter. To be eligible for on-leave status, the student must have registered for and completed at least one quarter in the UW Graduate School and have been registered or on-leave for the immediate previous quarter (excepting Summer). An on-leave student is entitled to use the University Libraries and to sit for foreign language competence examinations, but is not entitled to any other University privileges of a regularly enrolled and registered full- or part-time student. The student pays a nonrefundable fee to obtain on-leave student status and can only go on leave for one quarter at a time. Please note: Periods spent on-leave are included as part of the maximum time periods allowed for completion of a graduate degree.

Readmission
A student previously registered in the Graduate School who has failed to maintain graduate student status, but who wishes to resume studies, must file an application online by the published closing dates, for admission to the Graduate School. If the student is readmitted, registration will occur during the registration period II. If the student has attended any other institution during the period when not registered at the University of Washington, official transcripts of the student's work (in duplicate) must be submitted. An application for readmission carries no preference and is treated in the same manner as an application for initial admission. Payment of the application fee is also required.

Community Standards and Student Conduct
University of Washington Bothell students are expected to maintain the highest standards of academic integrity and behavioral conduct. These standards, which are detailed in the Student Conduct Code for the University of Washington (WAC 478-120) safeguard university functions, and protect the rights and freedoms of all members of the academic community.

Academic Integrity
Most UW Bothell students are honest and conduct themselves with integrity; they are disturbed when they observe others cheating.

Cheating harms the University community in many ways. The unfairness of undetected and unpunished cheating frustrates honest students. Cheaters may skew the grading curve on an assignment or in a class, lowering grades of students who do their own work.

Students who cheat deny themselves a real education. They cheat themselves of general knowledge. More importantly, they pass up the experience of learning how to learn, the very thing that makes a degree so valuable to employers. As a result, the reputation of the University and the value of a UW Bothell degree diminish if employers find graduates lacking the abilities their degrees should guarantee.

Finally, most professions have a code of ethics, standards to which you will be expected to adhere to when working. At the University, you practice the integrity you must demonstrate later.

For all these reasons, academic dishonesty is a serious offense at the UW Bothell; the University community is committed to reporting suspected occurrences of academic misconduct.

Academic Misconduct
Academic misconduct includes but is not limited to the following in connection with any exam, research, course assignment, or other academic exercise that
contributes to the satisfaction of requirements for courses or graduation. Academic misconduct includes but is not limited to:

**Cheating**
- Giving or receiving unauthorized assistance, or using unauthorized materials or information.
- Copying from another student.
- Using unauthorized resources, study aides or other people’s work.
- Altering assignments or exams and submitting them as original work.
- Offering false excuses to gain an advantage through additional time or some other advantage on class assignments.
- Submitting someone else’s work as your own.
- Getting someone to take an exam for you or taking an exam for someone else.
- Receiving unauthorized help on an exam or prohibited help on an assignment.
- The acquisition, use, or dissemination of a test or other academic material without permission.
- Engaging in behavior specifically prohibited by an instructor as outlined in the course syllabus or stated in class discussions.

**Unauthorized Collaboration**
Educators recognize the value of collaborative learning; students are often encouraged to form study groups and assigned group projects. Group study often results in accelerated learning, but only when each student takes responsibility for individually mastering all the material.

When a professor says, “Go ahead and work together,” do not assume that anything goes. Professors often do not state the limits of collaboration explicitly. It is your responsibility to confirm the expectations for working together on each assignment or academic task.

**Fabrication**
- Creating false information or data and presenting it as fact.
- Making up false quotes, statements, data, or sources.
- Improperly manipulating another’s data or ideas to support your own theories.
- Citing sources that were not used.
- Misrepresenting your academic accomplishments to instructors or employers.
- Making up false quotes, statements, data, or sources.
- Counterfeiting or falsifying records, including but not limited to a record of internship, or attendance at a required event.

**Facilitation**
- Helping or attempting to help another student engage in academic misconduct.
- Giving unauthorized help on any exam or assignment when not authorized.
- Giving test or assignment answers to students after such answers or information have been made available to you, but before they have been provided to other students.
- Completing an assignment or exam on behalf of another student.

**Plagiarism**
Plagiarism is the most common form of cheating. It involves using another person's original words, ideas, or research, including Internet material, without proper credit. Plagiarism can also include, but is not limited to:
- Failing to cite all used sources.
- Using another author’s sentence or phrase structure without proper citation.
- Paraphrasing another’s work without crediting the author or creator.
- Using another’s original work or ideas (writing, art, music, mathematics, computer code, or scientific work) in whole or in part without crediting that person or using proper citation (e.g. footnotes, endnotes, etc.).
- Stating facts that are not common knowledge without citing the source.

**Multiple submissions**
Although the UW Bothell does not have a policy that prohibits submission of a single paper for credit in two different classes (regardless of quarter or class level), your individual professors may not permit the duplicate submission in their classes. If you want to make a multiple submission, you must obtain
permission of both professors involved prior to submission of the work.

**Sabotage**
Sabotage or otherwise taking deliberate action to destroy or damage another's work.

**Behavioral Conduct**
Admission to the University of Washington Bothell carries the responsibility to respect the rights, privileges, and property of other members of the University community and refrain from any conduct that interferes with University functions or endanger the health, welfare, or safety of other persons.

**What is behavioral misconduct?**
Behavioral misconduct includes but is not limited to:
- Disruption or obstruction of University teaching or administrative functions.
- Damaging or misusing university or personal property on university premises.
- Physical, verbal, or emotional abuse.
- Threats intended to create bodily harm or endanger the health or safety of others.
- Possession of firearms, explosives, or weapons.
- Sexual offenses such as rape, sexual assault, or sexual harassment.
- Stalking.
- Hazing or conspiracy to engage in hazing.
- Unlawful possession, use, or distribution of alcohol or controlled substances, or paraphernalia.
- Engaging in any behavior for the purposes of gaining an unfair advantage specifically prohibited by an instructor.

**The UW Bothell Conduct Process**
The UW Bothell Conduct Process fosters student learning and development by promoting high standards of integrity and accountability. Students participating in the process will engage in five learning goals:
- Intellectual Growth
- Clarified Values
- Meaningful Interpersonal Relationships
- Realistic Self-Appraisal, and
- Healthy Behavior.

All members of the University community share responsibility for reporting all suspected incidents of student misconduct. Incidents may be reported online at: www.uwb.edu/studentservices/studentconduct.

Instructors who suspect a student enrolled in their class academic misconduct will arrange a meeting with the student to discuss their suspicions. During this meeting, the instructor will:
- Share evidence with the student, and explain how their conduct appears to violate the Student Conduct Code
- Offer the student an opportunity to dispute the allegation, and
- Provide the student with multiple options, which may include accepting a zero grade for the assignment or the course.
- Only after the incident is resolved, will faculty submit a grade for the assignment or the course.

If after meeting with a student the instructor determines that the student is responsible for academic misconduct, they will submit an incident report to the Division of Student Affairs. The Dean of Student Affairs or designee, who serves as the Vice Chancellor's Representative for Student Conduct, will:
- Inform the student in writing that an incident report has been filed, and
- Document the next steps to which the student and instructor agreed.
- The student will be asked to attend an informal hearing with the Dean or designee, or the University Disciplinary Committee.

**Informal Hearing**
Students asked to participate in an informal hearing may choose to either meet with the Dean of Student Affairs or designee, or appear before the University Disciplinary Committee to offer testimony. Students found responsible for violating the Student Conduct Code could be required to provide restitution or receive a disciplinary warning or reprimand, disciplinary probation, suspension, or dismissal. They
may also appeal any sanction according to procedures established in the Code. Records of all disciplinary actions and appeals are retained in the Division of Student Affairs for a period of seven years. If no subsequent violation occurs, a student may, by written request to the Dean of Student Affairs, ask (at the time of graduation) that the disciplinary record be expunged.

Disciplinary Sanctions
The following disciplinary sanctions prescribed by the Student Conduct Code are typically supplemented by learning opportunities unique to each student and their developmental state.

Disciplinary Warning and Reprimands: written notification that the student has not met the University’s standards of conduct, and that a repeated offense will result in more severe disciplinary action. First offenses do not automatically receive a warning; most first offenses receive a stricter response, with warnings reserved for cases with unusual mitigating circumstances.

Restitution: requirement that the student compensate the University or other persons for damages, injuries, or losses. Failure to comply results in canceled registration and a hold on future registration.

Disciplinary probation: an action that places conditions on the student’s continued attendance at the University, including the statement that further violation of University policies will likely result in dismissal. The Conduct Officer or Hearing Board determines the term and conditions of academic probation. First offenses often result in probation.

Suspension: a written statement from the Faculty Appeal Board notifying the student that his or her attendance has been suspended for a specified period of time (e.g., one quarter). The statement includes the term of the dismissal and conditions for readmittance, if any.

Dismissal: a written statement from the president’s delegate notifying a student that his or her attendance at the University has been permanently terminated for violating University policy.

Although the prospect of dismissal may seem the most serious consequence of dishonesty, there are others. If you apply to a medical, law, or other professional school, you may be required to provide a statement from the Dean of Student Affairs attesting to your good conduct.

Avoiding Misconduct
Common patterns in student behavior that increase stress and the temptation to cheat include: falling behind in coursework or leaving large projects until the last minute; working too many hours leaving little time to keep up with courses; taking too many difficult courses at one time; and emotional or health problems that distract from studies and interfere with concentration. University resources are available to help students proactively learn ways to avoid misconduct (e.g. The Writing and Communications Center or the Quantitative Skills Center).

The Student Conduct Code
Pursuant to Chapter 34.05 RCW and the authority granted by RCW 28B.20.130, the Board of Regents of the University of Washington has established regulations on student conduct and student discipline on the University of Washington campuses.

A complete copy of these regulations, WAC 478-120-020, Standards of Conduct is available online and from the UW Bothell Division of Student Affairs. Selected sections follow.

WAC 478-120-020-Standards of Conduct
The university is a public institution having special responsibility for providing instruction in higher education, for advancing knowledge through scholarship and research, and for providing related services to the community. As a center of learning, the university also has the obligation to maintain conditions conducive to freedom of inquiry and expression to the maximum degree compatible with the orderly conduct of its functions. For these purposes, the university is governed by the rules, regulations, procedures, policies, and standards of conduct that safeguard its functions and protect the
rights and freedoms of all members of the academic community.

Admission to the university carries with it the presumption that students will conduct themselves as responsible members of the academic community. As a condition of enrollment, all students assume responsibility to observe standards of conduct that will contribute to the pursuit of academic goals and to the welfare of the academic community. That responsibility includes, but is not limited to:

- Practicing high standards of academic and professional honesty and integrity;
- Respecting the rights, privileges, and property of other members of the academic community and visitors to the campus, and refraining from any conduct that would interfere with university functions or endanger the health, welfare, or safety of other persons;
- Complying with the rules, regulations, procedures, policies, standards of conduct, and orders of the university and its schools, colleges, and departments.

Specific instances of misconduct include, but are not limited to:

- Conduct that intentionally and substantially obstructs or disrupts teaching or freedom of movement or other lawful activities on university premises or in connection with any university-sponsored event or activity and is not constitutionally and/or legally protected;
- Physical abuse of any person, or conduct intended to threaten imminent bodily harm or to endanger the health or safety of any person on university premises;
- Conduct on university premises constituting a sexual offense, whether forcible or nonforcible, such as rape, sexual assault, or sexual harassment;
- Malicious damage to or malicious misuse of university property, or the property of any person where such property is located on university premises;
- Refusal to comply with any lawful order to leave university premises or any portion thereof;
- Possession or use of firearms, explosives, dangerous chemicals or other dangerous weapons or instrumentalities on university premises, except for authorized university purposes, unless prior written approval has been obtained from the university chief of police, or any other person designated by the president of the university (see WAC 478-124-020 (2)(e)) (legal defense sprays are not covered by this section);
- Unlawful possession, use, distribution, or manufacturer of alcohol or controlled substances (as defined in chapter 69.50 RCW) on university premises or during university-sponsored activities;
- Intentionally inciting others to engage immediately in any unlawful activity, which incitement leads directly to such conduct on university premises;

Hazing, or conspiracy to engage in hazing, which includes:

- Any method of initiation into a student organization or living group, or any pastime or amusement engaged in with respect to such an organization or living group, that causes, or is likely to cause, bodily danger or physical harm, or serious mental or emotional harm, to any student or other person attending the university; and
- CoConduct associated with initiation into a student organization or living group, or any pastime or amusement engaged in with respect to an organization or living group not amounting to a violation of (i)(i) of this subsection, but including such conduct as humiliation by ritual act and sleep deprivation. Consent is no defense to hazing.
Hazing does not include customary athletic events or other similar contests or competitions.

Falsely reporting a violation of the student conduct code.

Disciplinary action may be taken in accord with this chapter regardless of an alleged or proven violation of law.

An instructor has the authority to exclude a student from any class session in which the student is disorderly or disruptive. If the student persists in the disorderly or disruptive conduct, the instructor should report the matter to the dean of the school or college, or, at the University of Washington Bothell and Tacoma campuses, to the dean or the student is enrolled. (See WAC 478-120-030(3).)

Nothing herein shall be construed to deny students their legally and/or constitutionally protected rights.

WAC 478-120-025-Off-campus Behavior
The university shall have the authority to hold students accountable under the student conduct code for certain off-campus behavior (i.e., behavior that does not occur on university premises or in the context of a university-sponsored event or activity) that directly affects a university interest, in accordance with the provisions of the section.

1. A student may be subject to disciplinary proceedings under the student conduct code if:
   The university is made aware that a court of competent jurisdiction has determined that such student has engaged in intentional unlawful conduct off-campus that involves the physical harm or abuse, or a direct threat of the physical harm or abuse, of any person, including but not limited to homicide, assault, kidnapping, armed robbery, arson, rape or sexual assault, criminal harassment, criminal stalking or the unlawful possession, use, storage or manufacture of weapons or destructive devices; and
   The university determines that a significant university interest is affected.

2. A student may also be subject to disciplinary proceedings under the student conduct code if the university is made aware that the student has engaged in off-campus conduct that involves the physical harm or abuse, or the direct threat of physical harm or abuse, of another university student, or a university faculty or staff member. Disciplinary proceedings may be initiated under this section regardless of whether or not the incident is subject to criminal or civil proceedings.

3. In furtherance of the university's interest in maintaining a positive relationship with its surrounding community, the university shall also have the authority to hold students accountable under the student conduct code for conduct within the "North of 45th" residential community immediately adjacent to the Seattle campus (bounded by NE 45th Street on the south, 15th Ave NE on the west, 22nd Ave NE and north of 54th Street, Ravenna Ave NE on the east and Ravenna Park on the north and including all residences located on either side of each of the aforementioned streets) as follows:

A student may be subject to disciplinary proceedings under the code if the university is made aware that the student has been cited by the Seattle police or the university police for, and is determined to have committed, a violation of any state statute or city of Seattle municipal ordinance prohibiting misconduct that has a direct and significant quality-of-life impact on community residents, including but not limited to, creating a public nuisance due to noise, theft, intentional destruction of property, urinating in public, or criminal trespass.

b. A first violation under (a) of this subsection will not subject the student to disciplinary sanctions under WAC 478-120-040 if the student voluntarily meets with a representative of the Office of the Vice-President and Vice-Provost for Student Life to receive information and counseling regarding his or her responsibilities as a university community member and as a resident in the area. A second violation will not be subject to disciplinary sanctions if the student involved agrees to participate, in good faith, in mediation with the person or persons affected by the misconduct under a mediation protocol established by the Office of the Vice-President and Vice-Provost for Student Life.
4. Nothing herein shall be construed as being intended to protect any person or class of persons from injury or harm, or construed to deny students their legally and/or constitutionally protected rights.

VI. Baccalaureate Degrees

Center for University Studies and Programs (CUSP)

First Year and Pre-major Programs

The UW Bothell Lower Division Experience

CUSP courses are 100 and 200 level courses created to provide students with the skills to be successful in the 21st century workforce and to make meaningful contributions to local, regional, and global communities. All CUSP courses are oriented toward addressing vital issues of the contemporary world outside your door and in your lives. Students learn about the connections between biology and business, mathematics and literature, geography and anthropology, psychology and economics, computer science and the arts, and, in this process, come to know ourselves and each other in important ways.

The CUSP first-year curriculum is centered around the Discovery Core sequence and includes a range of electives that fulfill UW distribution requirements and prerequisite requirements for UW Bothell majors. Students have the opportunity to learn about biology, business, mathematics, literature, writing, psychology, sociology, computer science and philosophy not as isolated subjects, but, instead, as they interact with one another in the Discovery Core curriculum.

The CUSP second-year curriculum supports students as they continue to explore interests while narrowing their focus of study as they approach the time to declare a major. For second-year and Pre-Major students, this is also a time to pursue experiential learning opportunities, such as UW study abroad programs, internships, community-based learning and student leadership involvement.

The First Year Discovery Core Series

Discovery Core (DC) is a seminar sequence that enables first-year students to begin fulfilling their UW General Education requirements. The three-quarter series engages new students in a process of experiencing the richness of integrated learning across a variety of academic disciplines, orients them to UW Bothell’s culture, integrates and improves their academic skills, and supports their sense of belonging to peers and to the university.

Students who take the sequenced DC curriculum become immersed in interdisciplinary, team-taught, small learning communities. The experience complements the broader University of Washington Bothell’s learning climate. The campus takes pride in its accessible faculty, diverse student body and engaged learning. The DC courses are designed to support the overall CUSP mission to support the successful transition to college of first-year and pre-major students, and to provide the foundation on which they will continue scholarly and professional development. The CUSP Learning Goals focus on inclusive practices, critical and creative inquiry, ethics and social responsibility, quantitative and qualitative literacies, and communication.

First Year Autumn Quarter: Discovery Core I (5 and 10 credit options) The Autumn Discovery Core I courses focus on students’ transition into the university; on the development of analytic skills around reading, writing, media, and mathematics; on creating an e-portfolio; and on the practice of making connections across academic disciplines and between the classroom and the wider world.

The topics include, among others, Coffee and Media, Philosophical Explorations of Science Fiction, The Environment and the Universe, Jobs and the Economy, Digital Thinking, Entrepreneurship, The History of Physics, and Climate Change and Consumer Society. Some are team-taught, some individually taught, but all are designed to open students’ eyes to the richness of the complex world: from mollusks to Matisse; from computers to clouds; and from poetry to plants. These courses also count toward the UW general education requirements for graduation.
As part of the DC series, CUSP asks students to create an e-Portfolio that tells a story about the journey through their first year at the University of Washington Bothell. The e-Portfolio culminates with a reflection in DC III on how the ‘artifacts’ of students’ first-year work (essays, reports, projects, presentations, performances, art work, etc.) helped them achieve the CUSP Learning Goals.

**First Year Winter Quarter:** Discovery Core II (5 credits) The Winter Discovery Core II continues the work begun in the autumn, making a turn toward the practice of Undergraduate Research in which the skills of analysis, creativity, and collaboration are essential. Some of these courses include Climate Change, Music in Everyday Life, Chocolate: A Global Inquiry, Chemistry and Cars, and Play: Anthropological and Psychological Perspectives. Students continue to construct the e-portfolio and explore their own areas of interest. These courses, like all the rest, count toward the UW general education requirements.

Students also engage in the Pathways to Academic Engagement during the winter quarter. The Pathways to Academic Engagement is a program dedicated to enhancing students’ second year experiences and student success. The program encourages students’ engagement with a combination of services, programs, professional development, curricular and co-curricular activities that provides a gateway between a student’s college transition and their future aspirations. In short, it offers a foundation to explore the specific experiences and opportunities UW Bothell has to offer, especially those related to career development, interdisciplinary education, academic success, community involvement, and campus involvement.

**First Year Spring Quarter:** Discovery Core III (5 credits) The Spring DC III focuses on active reflection on the first year, on honing the students’ skills as interdisciplinary researchers, and on the projection toward the second year of college. As students prepare to make the transition into their majors, they will work closely with their peers and professors on completing the eportfolio and on such areas as Autobiography and Media Storytelling, Project Planning: Business, Community and Life, Community Engagement through the Arts, Science and the News, Chemistry and Astronomy, Cultures of the Northwest, and Dream as Reality. These courses also count toward the UW general education requirements.

**First Year and Pre-Major Electives:** In addition to Discovery Core courses each quarter, a range of electives are available, including Global Economics, Contemporary Literature, Mathematics, Art and Public Space, Scientific Journeys, Psychology, Dance, Photography, and Acting, Music and Philosophy, Myth and Ritual, Micro- and Macroeconomics, American Government, Topics in Asian Culture, Introduction to Law, and Interdisciplinary and Research Writing.

Transfer and Pre-Major students, like First-Year students, enroll in electives in math, science, writing, literature, philosophy, psychology, the arts, law, economics, and other areas that fulfill UW distribution requirements for graduation and prerequisite admission requirements to all the UWB majors.

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**School of Business**

**Bachelor of Arts in Business Administration (Bothell campus and ELC-Bellevue)**

Demand by individuals and companies in the local area for a business degree program led UW Bothell to establish the School of Business in 1993. Conversations with regional business leaders resulted in the goal of providing students a strong background in writing, critical thinking, teamwork, and presentation skills. The School of Business expanded the location of its degree program with the launch of the BA in Business Administration at the Eastside Leadership Center (ELC) in Bellevue in 2010. ELC-Bellevue students are admitted and graduate as UW Bothell students and have access to most UW resources, services and activities. The ELC-Bellevue program is a fee-based program of the University of Washington. The current course fee is listed on the ELC program website. Registration is administered through partnership with UW Professional and Continuing Education.
The first courses taken for the major at the Bothell campus are six core courses designed to provide students with a strong base of business knowledge in essential fields of study. Students then may choose to complete a formal option in accounting (35), or one of six concentrations (20-25 credits):

- Finance
- Management
- Management Information Systems (MIS)
- Marketing
- Retail Management
- Technology and Innovation Management (TIM)

Students who want to select courses to meet their individual goals may elect four business courses instead of a concentration. Two capstone courses complete the major requirements of 55 credits.

The first courses taken for the major at the ELC in Bellevue are nine core courses (45 credits) designed to provide students with a strong base of business knowledge in essential fields of study. Students then complete eight five-credit courses (40 credits) within Informal Concentration courses. Students may also design an Individual Pathway (40 credits) from a combination of the courses offered within Informal Concentrations. Individual Pathways require guidance from the Academic Advisor to ensure prerequisites are met. The four Informal Concentrations include:

- Entrepreneurship
- Finance
- General Business
- International Business

Students who want to select courses to meet their individual goals may select courses from among the concentrations. One capstone course (5 credits) completes the major requirements of 90 credits. In addition, students participate in several unique features offered only in this innovative ELC-Bellevue program; one, a structured 1:1 Mentorship Program, which pairs students one-to-one with leaders in the business community who provide individualized opportunities for networking and professional development; two, students leverage a unique Cohort Model with a focus on teambuilding and collaboration to prepare them for the world-of-work; three, participate in Bloomberg BusinessWeek career centers and are provided with paid subscriptions to the world's leading business magazine while in the program; and, four, gain insight through Saturday Symposia with industry professionals. Once students enter the ELC-Bellevue Program, they are not allowed to transfer to the Bothell Program.

The School of Business emphasizes effective oral and written communication, teamwork in a diverse workforce, entrepreneurial management in high-tech companies, and skills for working in the global business environment. For students already employed in business, the program strengthens and refines critical skills and increases knowledge of the principles and techniques of sound business practice. For those seeking employment, the program offers a foundation for new careers in the rapidly changing regional and international economy.

The mission of the School of Business at UW Bothell is to transform the lives of students and enhance the vitality of the community by providing an exceptional education in a collaborative learning environment characterized by innovative teaching and research in business administration. The Bachelor of Arts in Business Administration degree is fully accredited by AACSB-The International Association for Management Education.

School of Business Office
Phone: 425-352-5113

Eastside Leadership Center Undergraduate Admissions and Advising Office
Phone: 425-432-5191

Bachelor of Arts in Business Administration

Admission Requirements

- A minimum of 70 quarter credits.
- A cumulative grade point average (GPA) of 2.5 or higher.
- Two years of a single foreign language in high school or two quarters of a single foreign language in college.
- Courses in advanced composition, statistics; calculus; introduction and fundamentals of financial accounting; managerial accounting;
microeconomics; macroeconomics; introduction to law or business law; 10 credits of English Composition; 15 credits of Natural Science (The Natural World); 15 credits of Humanities (Visual Literary and Performing Arts); 20 credits of Social Science (Individuals and Societies).

Writing Skills Assessment (WSA)
Applicants to the Business Administration program are required to complete an assessment of their writing and critical thinking skills (WSA) prior to application. Information on the test, test dates, and registration are on the Business Program website.

If you took the SAT W after March 2005, you may submit your score in place of the Writing Skills Assessment.

Accounting Admission Requirements
Admissions to the Accounting Option is competitive. Applicants interested in pursuing this option, MUST clearly indicate this in the online application under the section: “Location and Option/Concentration” on page 7 of the UW application. Current UWB students should complete the Internal Application for Bothell, available at:
http://www.uwb.edu/babusiness/admission-requirements/applyba.

- Applicants must also meet the following requirements to be eligible for consideration:
- Must have completed all required prerequisite Accounting courses with a minimum grade of 2.5 in each course.
- (*Note: Applicants in the process of completing a course will not be considered for the Accounting option until the course has been completed)
- Must have earned a minimum 3.0 cumulative grade point average across all prerequisite Accounting courses
- Students may NOT enroll in any Accounting courses until they have been approved by the review committee. Students will be notified.

Graduation Requirements
- Completion of 90 credits or more at the upper-division level (300-400).
- Completion of at least 55 credits in business, with a minimum of 40 at UWB.
- Transfer courses must be upper-division and approved by the program. Contact advisor for policy.
- 10 credits of Writing courses.
- 45 of the final 60 credits must be completed in residence at UW Bothell.
- Completion of a minimum of 180 credits.
- Achieve a minimum grade of 1.7 in every business course at UW.
- Achieve a cumulative UW GPA of 2.0 or higher.
- Completion of all university and Business Program admission and graduation requirements.

Business Program Structure
Summary of Credits:

<table>
<thead>
<tr>
<th>Business Administration</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Core</td>
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<tr>
<td>Business Electives/Concentration</td>
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<tr>
<td>General Electives</td>
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<tr>
<td>Capstone</td>
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<th>Credits</th>
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</thead>
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<tr>
<td>Business Core</td>
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<tr>
<td>Accounting Option</td>
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<tr>
<td>Accounting Option Electives</td>
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<tr>
<td>Non-business General Elective</td>
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</tr>
<tr>
<td>Capstone</td>
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<tr>
<td>Transfer</td>
<td>90</td>
</tr>
<tr>
<td>Total</td>
<td>180</td>
</tr>
</tbody>
</table>

Required Business Core (30 Credits)
Management of Organizations/Teamwork Skills – BBUS/BBSKL 300
Business Writing – BBUS 307
Managerial Economics - BBUS 310
Marketing Management -BBUS 320
Operations and Project Management - BBUS 340
Business Finance - BBUS 350

**Capstone (10 Credits)**
Business Policy and Strategic Management - BBUS 470
Global Environment of Business - BBUS 480.

**General Electives (30 Credits); Minimum 10 credits must be non-business courses**
Any 300-400 level classes from Business, Computer Software Systems, Interdisciplinary Arts & Sciences, Education and Science & Technology Programs at UWB or approved comparable upper-division transfer courses. A second business concentration may be completed.

**Concentrations (20-25 Credits):**

**Finance (20)**
Financial Policy and Planning - BBUS 451
Financial Institutions and Markets - BBUS 453
Investments - BBUS 454
*Plus one approved elective such as:*
Intermediate Accounting I – BBUS 361
Management Accounting & Control Systems - BBUS 373
Futures & Options – BBUS 455
Entrepreneurial Finance – BBUS 456
Special Topics in Finance – BBUS 459
Sustainable Business – BBUS 460
Applied Financial Accounting (No credits awarded for Accounting Option Students) – BBUS 465
Special Topics in Business (When approved for concentration) – BBUS 460
Business Consulting – BBUS 491

**Management (20)**
Managing Employees - BBUS 472
Leadership and Decision Making - BBUS 473
*Plus two approved electives, such as:*
Information Management & Analysis – BBUS 330
Work Motivation & Performance – BBUS 401
Managing Work Teams – BBUS 402
Business Project Management – BBUS 441
Entrepreneurship Seminar – BBUS 443
Product Development Lab – BBUS 444
Sustainable Business – BBUS 460
Business, Government & Society – BBUS 461

Negotiations & Conflict Management – BBUS 462
Entrepreneurial Management – BBUS 471
Managing Innovation – BBUS 475
New Technology & Future Markets – BBUS 476
Human Resource Management – BBUS 477
Special Topics in Management (When approved for concentration) – BBUS 479
Special Topics in Business (When approved for concentration) – BBUS 490
Business Consulting – BBUS 491

**Management Information Systems (25)**
MIS students need a computer programming class equivalent to CSS 161 before starting the MIS concentration. See Business Advisor for list of courses that apply.
Information Management and Analysis -BBUS 330
Fundamentals of Programming Theory & Applications - CSS 341
Software Engineering - CSS 360
Digital Business Lab - BBUS 489
*Plus one approved elective, such as:*
Electronic Marketing – BBUS 431
Entrepreneurship Seminar – BBUS 443
Product Development Lab – BBUS 444
Sustainable Business – BBUS 460
Special Topics in Management (When approved for concentration) – BBUS 479
Business Consulting – BBUS 491
Business of Computing – CSS 371
Database Systems - CSS 475
Usability & User-Centered Design - CSS 478
Principles of Human-Computer Interaction - CSS 480

**Marketing (20)**
Marketing Research - BBUS 423
Marketing Management Lab - BBUS 438
*Plus two approved electives such as:*
Consumer Marketing – BBUS 421
International Marketing – BBUS 426
Entrepreneurial Marketing – BBUS 427
Special Topics in Marketing – BBUS 429
Electronic Marketing – BBUS 431
Sustainable Business – BBUS 460
Business, Government & Society – BBUS 461
Negotiations & Conflict Management – BBUS 462
New Product Marketing – BBUS 464
Entrepreneurial Management – BBUS 471
New Technology & Future Markets – BBUS 476
Special Topics in Business (When approved for concentration) – BBUS 490
Business Consulting – BBUS 491

Retail Management (20)
Merchandising Acquisition – BBUS 445
Strategic Retail Promotion – BBUS 446
Retail Operations & Supply Chain – BBUS 447
Retail Technology and Leadership – BBUS 448

Technology and Innovation Management (20)
Managing Innovation - BBUS 475
New Technologies and Future Markets - BBUS 476
Plus two approved electives such as:
Information Management & Analysis – BBUS 330
Special Topics in Marketing (When approved for concentration) – BBUS 429
Electronic Marketing – BBUS 431
Entrepreneurship Seminar –BBUS 443
Product Development Lab – BBUS 444
Sustainable Business – BBUS 460
Entrepreneurial Management – BBUS 471
Special Topics in Management (When approved for concentration) – BBUS 479
Special Topics in Business (When approved for concentration) – BBUS 490
Business Consulting – BBUS 491

Accounting Option (35)
Intermediate Accounting I – BUS 361
Intermediate Accounting II – BBUS 362
Intermediate Accounting III – BBUS 363
Cost Accounting – BBUS 373
Auditing Theory & Practice – BBUS 411
Accounting Information Systems – BBUS 435
Federal Income Taxation – BBUS 450

Bachelor of Arts in Business Administration ELC-Bellevue

Program Structure
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<tr>
<td>Informal Concentration</td>
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</tbody>
</table>

Business Administration

Credits

Capstone 5
Transfer Credits 90

Total 180

Required Business Core (45 Credits)
Management of Organizations - ELCBUS 300
Business Statistics - ELCBUS 301
Managerial Economics - ELCBUS 310
Marketing Management - ELCBUS 320
Information Management and Analysis - ELCBUS 330
Operations and Project Management - ELCBUS 340
Business Finance - ELCBUS 350
Introduction to Organizational Behavior - ELCBUS 380
Business, Government, and Society - ELCBUS 382

Informal Concentrations (40 Credits)

Entrepreneurship (20)
Essentials in Venturing - ELCBUS 441
New Venture Ideas - ELCBUS 442
Venture Feasibility Analysis - ELCBUS 443
Venture Start-up, Management and Growth - ELCBUS 444

Finance (20)
Financial Policy and Planning - ELCBUS 451
Financial Institutions and Markets - ELCBUS 453
Investments - ELCBUS 454
Futures and Options - ELCBUS 455

General Business (20)
Business Project Management – ELCBUS 400
Electronic Marketing – ELCBUS 401
Leadership and Decision Making – ELCBUS 402
Negotiations and Conflict Management – ELCBUS 403

International Business (20)
International Environment of Business - ELCBUS 461
International Marketing - ELCBUS 462
International Finance and Trade - ELCBUS 463
History and Globalization- ELCBUS 464
Capstone (5 Credits)
Business Policy and Strategic Management - ELCEBUS 470

WSA Score-Based Course (5 Credits)
If WSA Scores upon entry were low, students will take an additional five credit writing course.

Minor in Business Administration
Open to all UW Students
University of Washington students from all majors may earn a minor in Business Administration at UW Bothell. Students enrolled at UW Seattle and UW Tacoma will be authorized for cross-enrollment in order to pursue the Business minor. Interested students should discuss the feasibility of completing this minor with their major program advisor and a UW Bothell Business Program advisor.

Prerequisites
Students must earn a 2.7 cumulative gpa and a 2.7 prerequisite gpa with a minimum grade of 2.0 in each of the following prerequisite courses:

- Microeconomics
- Macroeconomics
- Statistics
- College Algebra (or higher)
- One quarter 200-level Accounting

Students will be admitted to the minor when transcripts showing satisfactory completion of all the prerequisites are provided.

Business Administration Minor Program Requirements
The Business minor requires the completion of 25 credits of upper-division business courses including:

- BBUS/BBSKL 300 Management of Organizations/Teamwork Skills
- BBUS 310 Managerial Economics
- BBUS 320 Marketing Management
- BBUS 340 Operations & Project Management
- Elective - Business Elective at the 300-400 level

Three of the five courses in the Business minor must be completed at UW Bothell. Acceptance of transfer courses needs to be discussed with a UWB Business advisor.

Minor in Retail Management
Open to all UW Students
University of Washington students from all majors may earn a minor in Business Administration at UW Bothell. Students enrolled at UW Seattle and UW Tacoma will be authorized for cross-enrollment in order to pursue the Business minor. UW Seattle and UW Tacoma students should see their major program advisor to declare the Retail Management minor. The Change of Major form must be submitted to the Registrar’s Office at their home campus. Students will need to submit transcripts showing the completion of the required prerequisite course. Students must complete the prerequisite and be accepted to the minor before taking any business courses at UW Bothell.

Prerequisites
Students must earn a 2.7 cumulative GPA and a 2.7 minimum grade in:
Introduction to Business – BBUS 201

Students will be admitted to the minor when transcripts showing satisfactory completion of the prerequisite course above.

Retail Management Minor Program Requirements
The Business minor requires the completion of 28-30 credits of upper-division business courses including:

- BBUS/BBSKL 300 Management of Organizations/Teamwork Skills
- BBUS 320 Marketing Management
- BBUS 445 Merchandising Acquisition
- BBUS 446 Strategic Retail Promotion
- BBUS 447 Retail Operations & Supply Chain
- BBUS 448 Retail Technology and Leadership

Students may take MGMT 300: Leadership and Organizational Behavior and/or MKTG 301: Marketing Concepts, at the UW Seattle campus to satisfy the requirements of BBUS 300 and BBUS 320, respectively. The UW Seattle campus courses are four credits each. Students who take one of these courses at Seattle will complete the Retail Management minor.
with 29 credits; students who take both of these courses at UW Seattle will complete the minor with 28 credits.

School of Science, Technology, Engineering and Mathematics

Division of Biological Sciences

Bachelor of Science in Biology
The Bachelor of Science in Biology offers a challenging, integrative course of study in which students study biology in both breadth and depth. Students take required courses across the biological sciences, including Genetics, Ecology, and Evolution. Electives – from Microbiology and Cell Biology to Anatomy and Conservation Biology – allow students to explore their interests in more depth. The Biology program emphasizes undergraduate research, development of strong communication skills, and an awareness of the impact of Biology on society.

The Bachelor of Science in Biology provides an excellent foundation for students to pursue careers in biology, biology education, ecology, biotechnology, pharmaceuticals, medicine, dentistry, and health.

Admission Requirements
Must be completed prior to admission, a 2.0 minimum grade is required in each of the Introduction to Biology courses. (see http://admit.washington.edu/EquivalencyGuide for Washington State Community College transfer equivalencies)
B BIO 180 Introductory Biology I
B BIO 200 Introductory Biology II
B BIO 220 Introductory Biology III
B CHEM 143/144 General Chemistry I/Lab
B CHEM 153/154 General Chemistry II/Lab
B CHEM 163/164 General Chemistry III/Lab

Program Structure
Required Courses
General
B BIO 180 Intro Biology I*
B BIO 200 Intro Biology II*
B BIO 220 Intro Biology III*
B BIO 360 Intro Genetics
BES 312 Ecology
B BIO 466 Evolution
BES 301 Science Methods and Practice
BIS 380 Bioethics

Cell/Subcellular Biology (choose one course from the following list):
B BIO 364 Biochemistry
B BIO 365 Biochemistry II
B BIO 370 Microbiology
B BIO 380 Cell Biology

Physiology (choose one course from the following list):
B BIO 351 Principles of Anatomy and Physiology I (5)
B BIO 352 Principles of Anatomy and Physiology II (5)

Investigative Biology (choose one course from the following list):
B BIO 495 Investigative Biology
Approved Undergraduate research (B BIO 498)
Approved Internship/ Independent Study (B BIO 499)
Note: this requirement may be fulfilled with an internship that does not earn course credit. In such cases, students should be aware that the 180-credit graduation requirement still applies.

Biology and Society (choose one course from the following list):
B BIO 231/BISSTS 231 Genes, Genomes and Heredity
B BIO 232/BISSTS 232 Embryos, Genes and Reproductive Technology
B BIO 305 Science and Ethics of Stem Cells
B BIO 310 Brain and Behavior
B BIO 393 Biology Special Topics (by approval only)
BES 362 Intro to Restoration Ecology
BES 462 Restoration Ecology Network Capstone
BES 485 Conservation Biology
BIS 241 Nature and the Northwest
BIS 243 Intro to Environmental Issues
BIS 306 Marine Diversity and Conservation
BIS 356 Ethics and the Environment
BIS 384 Health, Medicine and Society
BIS 391 Environmental History of the Pacific NW Bioregion
BIS 405/B EDUC 493 Environmental Education
BIS 411 Biotechnology and Society
BIS 459 Conservation and Sustainable Development
BISSTS 307 Science Technology and Society
BISSTS 397 Special Topics (by approval only)

**Biology Electives** – choose three courses from the following list (15 credits):

- B BIO 310 Brain and Behavior
- B BIO 351 Principles of Anatomy and Physiology I
- B BIO 352 Principles of Anatomy and Physiology II
- B BIO 355 Behavioral Endocrinology
- B BIO 364 Biochemistry
- B BIO 365 Biochemistry II
- B BIO 370 Microbiology
- B BIO 375 Molecular Biology
- B BIO 380 Cell Biology
- B BIO 383 Bioinformatics
- B BIO 460 Developmental Biology
- B BIO 470 Microbiology II
- B BIO 393 Special Topics – On department approval
- BES 485 Conservation Biology
- BES 462, 463, 464 Restoration Ecology Capstone
  (must take entire sequence; counts as two electives)
- BES 488 Wetland Ecology
- BES 489 Pacific NW Ecosystems
- BES 490 Pacific NW Plants in Restoration & Conservation
- BIS 306 Marine Diversity and Conservation
- BIS 381 History of Life

**Chemistry**

- B CHEM 143/144 General Chemistry I*
- B CHEM 153/154 General Chemistry II*
- B CHEM 163/164 General Chemistry III*
- B CHEM 237 Organic Chemistry I

**Physics**

- B PHYS 114/117 General Physics I
- B PHYS 115/118 General Physics II

  *Alternatively, students may substitute the Calculus-based Physics option:

- B PHYS 121 Mechanics
- B PHYS 122 Electromagnetism and Oscillatory Motion

**Mathematics**

- STMATH 124 Calculus I
- An approve statistics course

* Prerequisite courses.

**Additional Courses**

As needed to fulfill University General Education Requirements and to equal 180 credits.

**Program Policies**

If more than one course is taken from the list of courses that satisfy the Cell/Subcellular Biology requirement, or the Physiology requirement, then the additional courses may be counted as Biology electives. For example, if a student takes both Biochemistry and Microbiology, one can count toward the Cell/Subcellular requirement, and the other as a Biology elective.

Some courses may be used to satisfy the Biology & Society requirement, or a Biology elective requirement, but a single course cannot be used to satisfy both requirements. For example, BES 485 Conservation Biology may count either as a Biology elective, or as a Biology & Society course, but not both.

The lists of electives and Biology & Society courses are updated as necessary. Please verify that a course fulfills the requirement with your Program Advisor.

**Consciousness Minor**

The Consciousness minor investigates the nature, dynamics, and functions of the mind through the perspectives of psychology, neuroscience, physics, biology, and contemplative practices. It utilizes both objective and subjective methods to explore levels of awareness, the intersection of mind and matter, and ways to enhance individual and collective well-being. The Consciousness minor is open to all UW students in order to enrich their work in other areas of academic inquiry. Students from the other UW campuses may enroll on a space available basis.

**Required Courses (15 credits)**

- BST 321: The Farther Reaches of Human Nature
- BST 322: Exploration of Consciousness
- B BIO 310: Brain and Behavior, or BST: 325 Mind and Matter
Elective Courses (10 credits) – Choose two courses from the following list:
- BBIO 310: Brain and Behavior, if not taken to meet the core requirement
- BST 293: Intersections of Physics and Art
- BST 323: The Psychology and Science of Dreams
- BST 325: Mind and Matter, if not taken to meet the core requirement
- BST 424: Consciousness, Ethics, and the Natural World
- BST 425: Consciousness and Well-Being

Division of Computing and Software Systems

Bachelor of Arts in Applied Computing

The Bachelor of Arts in Applied Computing (AC) is a multidisciplinary degree that allows students to become experts in integrating computer technology across their minor elective field. In their CSS coursework, students concentrate on programming, software engineering, management, communications, and hardware and operating systems from an application perspective. These core classes create a solid foundation of knowledge in computer hardware, programming, and software development.

Students combine their CSS coursework with studies in a non-computing subject that is of interest to them. This subject area, called a Minor Elective, can take the form of either an established minor at the University of Washington or an approved concentration of courses that covers a complex subject matter.

To integrate their CSS coursework with the courses in their minor elective, Applied Computing students take part in a final Applied Computing Capstone, where they gain a deeper understanding of the inherent relations between computing and software development and their concentration in another discipline.

Admission Requirements
- English Composition: (B WRIT 134) or ENGL111, 121, 131
- Advanced English Composition: (B WRIT 135), or ENGL 281, C LIT 240 or HCDE 231
- Programming: CSS 107 or any survey of computing course, CSS 161 or CSE 142, and CSS 162 or CSE 143
- Calculus: STMATH 124 or Math 124
- Statistics

Program Structure

Students entering the AC major Autumn Quarter 2007 and thereafter follow the curriculum outlined below.

Required Core Courses (30 credits)
- CSS 301 - Technical Writing for Computing Professionals
- CSS 342 - Data Structures & Algorithms I
- CSS 350 - Management Principles for Computing Professionals
- CSS 360 - Software Engineering
- CSS 421 - Introduction to Hardware Architecture and Operating Systems
- CSS 496 - Applied Computing Capstone

CSS Electives (35 credits)
A maximum of 10 credits are allowed at the 200 level, a maximum of 10 credits of CSS 390 and 490 (Special Topics) are allowed, and a maximum of 10 credits of combined 498 & 499 are allowed towards the CSS Elective requirement.

Minor Electives (25 credits) or any other non-computing related Major (or approved course of study)
This must be an approved minor, concentration or major from another department or program. Students may also work with CSS faculty and program advisors to develop custom knowledge domain expertise - subject to departmental approval. If student has a baccalaureate degree in another area, this requirement may be waived. Students must submit a Minor Elective Contract for approval to the CSS advisor by the end of their 3rd quarter in the major.

Graduation Requirements
- 180 or more total credits
- 70 upper-division credits (300-400 level)
- Completion of the last 45 credits at UW Bothell
- To graduate, new students entering the AC major Autumn Quarter 2007 and thereafter must earn a grade of 2.0 in any course offered by, or required by, the AC major
• 15 credits of Visual, Literary, and Performing Arts
• 15 credits of Individuals and Societies

Bachelor of Science in Computer Engineering
The Bachelor of Science in Computer Engineering combines education in hardware and software development, with students gaining the background necessary to become broadly-educated professionals who are knowledgeable in both domains, understanding how the domains interact, restrict, or enable interdependent capabilities. Core coursework encompasses the physical and mathematical sciences, object-oriented programming, algorithms, data structures, software engineering, technical communications, circuits and systems, microprocessors, embedded systems, and operating systems. The major also offers the opportunity to build a strong foundation in various areas, including network design and development, signal processing, mobile computing, sensor systems, semiconductor devices, testing and quality assurance, and project management.

Admission Requirements
• English Composition: B WRIT 134, ENGL 111, 121, or 131
• Programming: CSS 161 or CSE 142 (Programming I) and CSS 162 or CSE 143 (Programming II)
• Calculus: STMATH 124 (Calculus I), STMATH 125 (Calculus II) and STMATH 126 (Calculus III)
• Physics: B PHYS 121 (Mechanics) and B PHYS 122 (Electromagnetism & Oscillatory Motion)

Program Structure
Writing & Oral Communication
• Second Composition, Research Writing, or Introduction to Technical Writing

Mathematics & Natural Sciences
• B CHEM 143/144 - General Chemistry & Lab
• STMATH 307 - Introduction to Differential Equations
• STMATH 308 - Matrix Algebra with Applications
• STMATH 324 - Multivariable Calculus
• STMATH 390 - Probability & Statistics in Engineering

Required Core Courses
• B EE 215 - Fundamentals of EE

Electives (10 credits)
Electives may be selected from B EE and CSS courses. All CSS/B EE electives must be at or above the 300 level. Of these credits, 5 credits must be at or above the 400 level. A maximum of 5 credits combined can be CSS or B EE Special Topics courses. A maximum of 5 credits combined can be CSS or B EE Independent Study or Undergraduate Research.

Graduation Policies
• Completion of 180 or more total credits including the above stated requirements, with a cumulative GPA of 2.0 or higher
• Students must earn a grade of 2.0 in all required courses (please note that some courses may require a higher prerequisite GPA)
• Completion of the last 45 credits at UW Bothell
• Completion of all University of Washington Bothell graduation requirements

Bachelor of Science in Computer Science & Software Engineering
The Bachelor of Science in Computer Science & Software Engineering is a computer science degree that stresses computer programming and people-
centered software development processes. Students will gain essential knowledge in object-oriented programming, data structures, algorithm analysis, software engineering, management principles, hardware architecture and operating systems.

The CSSE Elective courses provide the student the opportunity to develop a solid technical foundation of new and complex technologies. Offering in electives include: parallel and distributed computing, computational science and scientific computing, network design, expert systems, cyber security, software design testing, and computer vision, systems analysis, human factors, object-oriented programming, multi-media, software marketing, software testing and quality assurance, project management, database design, computer simulation, embedded systems, and artificial neural networks.

**Admission Requirements**
- English Composition: (B WRIT 134) or ENGL 111, 121, 131
- Advanced Composition: (B WRIT 135) or ENGL 281, C LIT 240 or HCDE 231
- Programming: CSS 161 or CSE 142 and CSS 162 or CSE 143
- Calculus: STMATH 124 or Math 124 and STMATH 125 or Math 125
- Statistics

**Program Structure**
Students entering the CSSE program Autumn 2006 and thereafter follow the curriculum outlined below.

**Required Core Courses (40 Credits)**
- CSS 301 - Technical Writing for Computing Professionals
- CSS 342 - Data Structures & Algorithms I
- CSS 343 - Data Structures & Algorithms II
- CSS 350 - Management Principles for Computing Professionals
- CSS 360 - Software Engineering
- CSS 370 - Analysis & Design
- CSS 422 - Hardware & Computer Organization
- CSS 430 - Operating Systems

CSS Electives (25 credits)

CSS electives are 200-400 level courses, of which a minimum of 15 credits must be at the 400 level. A maximum of 10 credits of Special Topics are allowed, and a maximum of 10 credits of combined CSS 498 & 499 are allowed towards the CSS Elective requirement.

**CSSE Capstone (10 Credits)**
The Computer Science & Software Engineering Capstone is the final core requirement for the degree. The scope and nature of each project will require students to integrate and apply their knowledge in a "real world" setting. Students complete 10 credits (400 hours) of Capstone in their final quarter(s). Project options consist of internships, research with faculty, individual projects, or group projects. Upon completion of the Capstone, students present at the CSS Colloquium.

**General Electives (15 Credits)**
300 or 400 level classes in any discipline

**Graduation Requirements**
- 180 or more total credits
- 80 upper-division credits (300-400 level)
- Completion of the last 45 credits at UW Bothell
- To graduate, new students entering the CSS program Autumn 1999 and thereafter must earn a grade of 2.0 in any course offered by, or required by, the CSS program
- 15 credits of Visual, Literary, and Performing Arts
- 15 credits of Individuals and Societies

**Minors**
Students can choose from two minors within CSS: Computer Science & Software Engineering (CSSE) and Information Technology (IT).

The purpose of the CSSE and IT minors is to provide opportunities to students from non-technical disciplines to supplement their major with a practical set of courses focused on information technology. The minor should prepare a student for a variety of industrial, government and business positions involving computer use.
Students on the Seattle and Tacoma campuses need to follow guidelines for cross-campus enrollment.

**Procedures**
Schedule an appointment with the CSS advisor to complete a "Change of Program or Minor" form upon successfully completing Programming I (for IT minor) and Programming II (for CSSE minor).

**CSSE Minor Requirements:**
The CSSE minor provides students with the necessary programming and software management skills to work within a software development environment within their major discipline.

- **Required Courses**
  - CSS 161
  - CSS 162
  - CSS 342
  - CSS 360
  - two additional 200-300 level CSS courses
- **Credits:** A minimum of 30 credits
- **At least a 2.0 in each course (unless otherwise noted)**

**IT Minor Requirements:**
The IT minor focuses on bridging the technology and information management gap, and gives students a background in software design methodologies, computer programming, database systems and strategies for automating industrial and organizational processes.

- **Required Courses**
  - CSS 161
  - CSS 341
  - CSS 360
  - CSS 475
  - One additional 5 credit CSS course
- **Credits:** A minimum of 25 credits
- **At least a 2.0 in each course (unless otherwise noted)**

**Graduating With a Minor**
When applying for graduation, the student's major program advisor will list the minor requirements on the graduation application. Upon graduation, the minor will be indicated on the student's transcript, but it will not appear on the diploma.

**Division of Engineering and Mathematics**

**Bachelor of Science in Electrical Engineering**
The Bachelor of Science in Electrical Engineering provides students with a strong foundation for pursuing careers or graduate studies in Electrical Engineering. Students in the program master the fundamentals and applications of electricity, electronics, and electromagnetism. A multidisciplinary learning environment provides experience in teamwork, design, ethics, entrepreneurship, and civic responsibility, with a focus on understanding the impact of engineering solutions in a global, economic, environmental, and societal context.

The program builds on UW Bothell’s strengths, emphasizing lab experience and research and internship opportunities outside the classroom. Our faculty are dedicated to teaching and building excellence and expertise through strong student-faculty relationships, small classes and hands-on, experiential learning principles.

**Admission Requirements**
The Electrical Engineering major is competitive, having the minimum grade of a 2.0 in the prerequisite courses does not guarantee admission. Prerequisites must be completed prior to admission (see [http://admit.washington.edu/EquivalencyGuide for Washington State Community College transfer equivalencies]).

**Prerequisites**
- STMATH 124 - Calculus I
- STMATH 125 - Calculus II
- STMATH 126 - Calculus III
- B PHYS 121 - Mechanics
- B PHYS 122 - Electromagnetism and Oscillatory Motion
- B CHEM 143/144 - General Chemistry I/Lab or CHEM 142
- College-level English Composition course

**Program Structure**

**Core Courses (55 Credits)**
**B EE 215 Fundamentals of Electrical Engineering**
**B EE 233 Circuit Theory**
**B EE 235 Continuous Time Linear Systems**
**B EE 271 Digital Circuits and Systems**
**B EE 331 Devices and Circuits I**
**B EE 332 Devices and Circuits II**
**B EE 341 Discrete Time Linear Systems**
**B EE 361 Applied Electrodynamics**
**B EE 371 Business of Technology**
**B EE 425 Microprocessor System Design**
**B EE 495 Design Capstone I**
**B EE 496 Design Capstone II**

**Electrical Engineering Electives:** Choose 3 courses from the following list (15 credits); a combined maximum of 10 credits of B EE 490, B EE 498, and B EE 499 may be counted toward the 15 credit requirement
**B EE 381 Power Generation**
**B EE 417 Digital Communication**
**B EE 433 Electronic Circuit Design**
**B EE 442 Digital Signal Processing**
**B EE 482 Semiconductor Devices**
**B EE 484 Sensors and Sensor Systems**
**B EE 490 Special Topics in Electrical Engineering**
**B EE 498 Undergraduate Research in Electrical Engineering**
**B EE 499 Independent Study in Electrical Engineering**

**Foundational Courses (80 credits)**
**STMATH 124 - Calculus I**
**STMATH 125 - Calculus II**
**STMATH 126 - Calculus III**
**ST MATH 307 Differential Equations**
**ST MATH 308 Matrix Algebra**
**ST MATH 324 Multivariable Calculus**
**ST MATH 390 Probability and Statistics in Engineering**
**B CHEM 143/144 General Chemistry I/Lab (or CHEM 142)***
**B PHYS 121 Mechanics***
**B PHYS 122 Electromagnetism & Oscillatory Motion***
**B PHYS 123 Waves**
**College Level English Composition***
**B WRIT 135 Research Writing, or Technical Writing**
**CSS 301 Technical Writing for Computing Professionals**
**CSS 161/CSSSKL 161 Fundamentals of Computing**
**CSS 162/CSSSKL 162 Programming Methodology**

**Additional Courses**
As needed to fulfill University General Education Requirements and to equal 180 credits.

**Graduation Policies**
In order to graduate with a Bachelor of Science in Electrical Engineering (BSEE) from UW Bothell, students are required to complete a total of 180 credits including the above stated requirements with a cumulative GPA of 2.0 or higher. Students must earn a 2.0 or higher in all courses that are required for the BSEE degree. Students are allowed to transfer a total of 15 credits of EE coursework including cross-campus enrollment, exceptions to this policy must be petitioned. In addition, students must meet all University of Washington Bothell graduation requirements.

**ABET Accreditation**
The Bachelor of Science in Electrical Engineering (BSEE) program at University of Washington Bothell is a fully accredited program. For more information about ABET accreditation, please visit http://www.abet.org/.

**Bachelor of Science in Mathematics**
"In this changing world, those who understand and can do mathematics will have significantly enhanced opportunities and options for shaping their futures. Mathematical competence opens doors to productive futures.” National Council of Teachers of Mathematics
Mathematics is an established and growing field with students pursuing careers in engineering, actuarial science, database and computer systems administration network and data communication analysis, statistical analysis secondary mathematics teaching and other fields. Students with a major in mathematics often pursue graduate studies in mathematics, physics, and engineering.

**Preparation for a career in teaching mathematics**
The curriculum represents a standard mathematics degree; however the courses offered also reflect the recommendations put forth by the Mathematical Association of America’s (MAA) CUPM Curriculum Guide 2004 (reference is Mathematical Association of America (2004). Undergraduate Programs and Courses in the Mathematical Sciences: CUPM

- Learn to make appropriate connections between the advanced mathematics they are learning and the secondary mathematics they will be teaching. They should be helped to reach this understanding in courses throughout the curriculum and through a senior-level experience that makes these connections explicit.
- Fulfill the requirements for a mathematics major by including topics from abstract algebra and number theory, analysis (advanced calculus or real analysis), discrete mathematics, geometry, and statistics and probability with an emphasis on data analysis;
- Learn about the history of mathematics and its applications, including recent work;
- Experience many forms of mathematical modeling and a variety of technological tools, including graphing calculators and geometry software.

Mathematics Curriculum
Admission Requirements
Must be completed prior to admission (see http://admit.washington.edu/EquivalencyGuide for Washington State Community College transfer equivalencies)

Prerequisites (15 credits) A 2.5 GPA average in the following three courses is required with no grade below a 2.0 in the individual courses.
STMATH 124 - Calculus I
STMATH 125 - Calculus II
STMATH 126 - Calculus III

Program Structure
Core Requirements (40 credits)
STMATH 307 Differential Equations
STMATH 308 Matrix Algebra
STMATH 324 Multivariable Calculus
STMATH 341 Introduction to Statistical Inference
STMATH 300 Foundations of Modern Mathematics
STMATH 381 Discrete Mathematical Modeling
STMATH 402 Abstract Algebra I
STMATH 424 Introduction to Analysis I

Mathematics Electives – Choose 5 courses from the following list (25 credits)
STMATH 310 Mathematical Game Theory
STMATH 326 Multivariable Calculus II
STMATH 350 Applied Number Theory and Cryptography
STMATH 390 Probability and Statistics in Engineering and Science
STMATH 403 Abstract Algebra II
STMATH 420 History of Mathematics
STMATH 425 Introduction to Analysis II
STMATH 444 Foundations of Geometry
STMATH 465/BEDUC 565 Fostering Algebraic Reasoning
STMATH 466/BEDUC 566 Fostering Geometric Reasoning
STMATH 467/BEDUC 567 Fostering Data, Graphical and Statistical Understanding

Supporting Science Course Requirements (16 credits)
B PHYS 121 Mechanics
B PHYS 122 Electromagnetism and Oscillatory Motion
CSS 161/CSSKL 161 Fundamentals of Computing/Fundamental Programming Skills

Additional Courses
As needed to fulfill University General Education Requirements and to equal 180 credits.

Links:
Mathematical Association of America (MAA)
http://www.maa.org/
National Council of Teachers of Mathematics
http://www.nctm.org/
University of Washington Bothell Mathematics Secondary Education Endorsement
http://www.uwb.edu/secondarycertmed/mathendorsement
Bachelor of Science in Mechanical Engineering

Designed to comply with ABET accreditation criteria, the BSME curriculum emphasizes hands-on experience, collaborative problem solving, and societal implications in the design, production, and implementation of mechanical and thermal fluid systems. It also complements the existing Bachelor of Science in Electrical Engineering (BSEE) major by providing additional learning and research opportunities in biomedical engineering and in power engineering, where electrical and mechanical technologies interweave. Prerequisites may be met through coursework at UW Bothell, another four-year institution, or a community college. Graduates will be prepared for a wide variety of careers inside and outside of engineering, or for continuation of study at the graduate level.

Admission Requirements

The Mechanical Engineering major is competitive; having the minimum grade of a 2.0 in the prerequisite courses does not guarantee admission. Prerequisites must be completed prior to admission (see http://admit.washington.edu/EquivalencyGuide for Washington State Community College transfer equivalencies)

Prerequisite Courses

STMATH 124, 125, and 126 – Calculus 1, 2, and 3
B CHEM 143/144 or CHEM 142 – General Chemistry I
B PHYS 121 - Mechanics, and B PHYS 122 – Electromagnetism and Oscillatory Motion
B ME 221 Fundamentals of Solid Mechanics 1: Static Forces (Statics)
B ME 222 Fundamentals of Solid Mechanics 2: Deformable Bodies (Mechanics of Materials)
B ME 223 Fundamentals of Solid Mechanics 3: Accelerating Bodies (Dynamics)

Other required courses that should be completed prior to admission

STMATH 307 – Differential Equations
STMATH 324 – Multivariable Calculus
B ARTS 121 – Drawing, B ARTS 131 – Intro to Arts Practice, OR CSS/CSSSKL 161 – Fundamentals of Computing
B PHYS 123 – Waves
B CHEM 153/154 – General Chemistry II OR B BIO 180 – Introduction to Biology I

Program Requirements

B ENGR 310 – Computational Physical Modeling
B ENGR 320 – Fundamentals of Material Science
B ENGR 481 – The Citizen Engineer: Engineering in a Diverse and Global Context
B ENGR 482 – The Professional Engineer: Management, Leadership, and Licensure
B EE 371 – Business of Technology
B EE 3XX – Electric Power and Machinery
B ME 310 – Engineering Computational Analysis & design: Intro to 3D Modeling, Design & Analysis
B ME 331 – Thermal Fluid Systems Analysis I: Conservation Principles
B ME 332 – Thermal Fluid Systems Analysis II: Applications
B ME 333 – Thermal Fluid Systems Analysis III: Analysis & Design
B ME 341 – Mechanical Systems Design I: Design Selection of Components; Failure
B ME 342 – Mechanical Systems Design II: System Dynamics
B ME 343 – Mechanical Systems Design III: Systems Analysis & Design
B ME 495 – Capstone Project I
B ME 496 – Capstone Project II
STMATH 390 – Probability and Statistics for Engineering
15 credits of Engineering Electives, see department for approved list

Additional Courses

As needed to fulfill University General Education Requirements (please note that some degree requirements also fulfill General Education Requirements) and to equal 180 credits.

ABET Accreditation

The Bachelor of Science in Mechanical Engineering (BSME) program at University of Washington Bothell is designed to meet ABET accreditation criteria. The application process for accreditation starts once the first students graduate from the program. For more information about ABET accreditation, please visit http://www.abet.org/.

Graduation Policies

In order to graduate with a Bachelor of Science in Mechanical Engineering (BSME) from UW Bothell, students are required to complete a total of 180
credits including the above stated requirements with a cumulative GPA of 2.0 or higher. Students must earn a 2.0 or higher in all courses that are required for the BSME degree. In addition, students must meet all University of Washington Bothell graduation requirements.

Division of Physical Sciences

Chemistry
The BS in Chemistry degree offers students a curriculum that includes all of the key elements in chemistry and is consistent with the recommendations of the American Chemical Society (ACS). The degree includes a specialization in environmental chemistry, materials chemistry or biochemistry. As part of the BS degree, students may choose a biochemistry option, which will appear on the transcript.

The BA in Chemistry degree allows students to get a focused STEM degree that includes a career track aimed at STEM education. In consort with the UWB Education program, BA Chemistry students will have the opportunity to complete a Teaching & Learning minor and continue on to get a Washington State secondary teacher certification in Chemistry.

In keeping with the interdisciplinary focus of UW Bothell’s programs, the BS and BA Chemistry curricula will inform and expose students to the interdisciplinary nature of STEM fields and programs along with training them to solve various technical problems for the general good. At UWB, graduates in chemistry will have an education that fosters creative thinking, which in turn will allow them to address critical challenges and issues in STEM subjects. UWB Chemistry graduates will be noted for their understanding of the application of chemistry courses to disciplines other than their own. Furthermore, they will acquire skills that will enable them to work effectively by solving problems and communicating results to a growing and diverse world of individual

Chemistry Admission Requirements (all majors)
B WRIT 134 Interdisciplinary Writing (or other composition)
STMATH 124 Calculus I

Bachelor of Arts in Chemistry
Program Structure
Required Courses
B WRIT 134 Interdisciplinary Writing (or other composition)
STMATH 124 Calculus I
STMATH 125 Calculus II
STMATH 126 Calculus III
B CHEM 143/144 General Chemistry I/Lab
B CHEM 153/154 General Chemistry II/Lab
B CHEM 163/164 General Chemistry III/Lab
B CHEM 237 Organic Chemistry I
B CHEM 238/241 Organic Chemistry II/Lab (transfer students only)
B CHEM 239/242 Organic Chemistry III/Lab (transfer students only)
B PHYS 121 Mechanics
B PHYS 122 Electromagnetism and Oscillatory Motion
B PHYS 123 Waves
B CHEM 312 Inorganic Chemistry I
B CHEM 315 Quantitative Environmental Analysis
B CHEM 401 Physical Chemistry I
B CHEM 402 Physical Chemistry II
B CHEM 4XX Investigative Chemistry I or approved independent research in chemistry
B CHEM 4XX Undergraduate mentoring in chemistry

Mathematics (5 credits) – Choose one course from the following list:
STMATH 307 Introduction to Differential Equations
STMATH 308 Matrix Algebra with Applications
STMATH 324 Multivariable Calculus
STMATH 341 Introduction to Statistical Inference

Upper Division Chemistry (10 credits)
Must include a lab course. List pending.
Bachelor of Science in Chemistry

Program Structure

Required Courses
B WRIT 134 Interdisciplinary Writing (or other composition)
STMATH 124 Calculus I
STMATH 125 Calculus II
STMATH 126 Calculus III
B CHEM 143/144 General Chemistry I/Lab
B CHEM 153/154 General Chemistry II/Lab
B CHEM 163/164 General Chemistry III/Lab
B CHEM 237 Organic Chemistry I
B CHEM 238/241 Organic Chemistry II/Lab (transfer students only)
B CHEM 239/242 Organic Chemistry III/Lab (transfer students only)
B CHEM 312 Inorganic Chemistry I
B CHEM 313 Inorganic Chemistry II
B CHEM 315 Quantitative Environmental Analysis
B CHEM 364/B BIO 364 Biochemistry I
B CHEM 401 Physical Chemistry I
B CHEM 402 Physical Chemistry II
B CHEM 403 Physical Chemistry III
B CHEM 404 Physical Chemistry Lab
B CHEM 4XX Instrumental Analysis
B CHEM 4XX Investigative Chemistry I or approved independent research
B CHEM 4XX Investigative Chemistry II or approved independent research

Mathematics (5 credits) – Choose one course from the following list:
STMATH 307 Introduction to Differential Equations
STMATH 308 Matrix Algebra with Applications
STMATH 324 Multivariable Calculus
STMATH 341 Introduction to Statistical Inference

Upper Division STEM Course (5 credits)
List pending.

Bachelor of Science in Chemistry with Biochemistry Option

Program Structure

Required Courses
B WRIT 134 Interdisciplinary Writing (or other composition)
STMATH 124 Calculus I
STMATH 125 Calculus II
STMATH 126 Calculus III
B BIO 180 Introductory Biology I
B BIO 200 Introductory Biology II
B CHEM 143/144 General Chemistry I/Lab
B CHEM 153/154 General Chemistry II/Lab
B CHEM 163/164 General Chemistry III/Lab
B CHEM 237 Organic Chemistry I
B CHEM 238/241 Organic Chemistry II/Lab (transfer students only)
B CHEM 239/242 Organic Chemistry III/Lab (transfer students only)
B CHEM 315 Quantitative Environmental Analysis
B CHEM 364/B BIO 364 Biochemistry I
B CHEM 365/B BIO 365 Biochemistry II
B CHEM 3XX / B BIO 3XX Biochemistry Lab
B CHEM 375 Molecular Biology
B CHEM 401 Physical Chemistry I
B CHEM 402 Physical Chemistry II
B CHEM 404 Physical Chemistry Lab
B CHEM 4XX Instrumental Analysis
B CHEM 4XX Investigative Chemistry I or approved independent research
B CHEM 4XX Investigative Chemistry II or approved independent research

Mathematics (5 credits) – Choose one course from the following list:
STMATH 307 Introduction to Differential Equations
STMATH 308 Matrix Algebra with Applications
STMATH 324 Multivariable Calculus
STMATH 341 Introduction to Statistical Inference

Upper Division Chemistry (5 credits)
List pending.

Bachelor of Science in Climate Science and Policy
The Climate Science and Policy Bachelor of Science major offers a true interdisciplinary curriculum providing students fundamental knowledge in math, chemistry, physics, policy and economics, along with detailed understanding of the scientific and societal issues important to the earth's climate system. The program helps students see the full dimension of this critical issue and will train students to be visionary leaders, able to provide solutions to one of humanities greatest challenges.

Admission Requirements
Must be completed prior to admission (see [http://admit.washington.edu/EquivalencyGuide](http://admit.washington.edu/EquivalencyGuide) for Washington State Community College transfer equivalencies)

Students may apply for admission with a combined 20 credits from the following:
Math: Calculus I, Calculus II
Physics: Mechanics, Electromagnetism and Oscillatory Motion
Chemistry: General Chemistry I, General Chemistry II, General Chemistry III

**Program Structure**

**Foundation Courses (50 credits)**
- B CHEM 143/144, 153/154, 163/164 General chemistry/Lab (3 quarters)
- B PHYS 121, 122 Physics (2 quarters)
- STMATH 124,125 Calculus I & II (2 quarters)
- B CUSP 200 or 201 Economics (or equivalent)
- BIS 280 or 281 Political Science (or equivalent)
- CSS 161/COSSKL 161 Fundamentals of Computing (or other approved course)

**Upper-division Core Courses (40 credits)**
- BCLIM 200 Intro to climate science and policy
- STMATH 390 Probability and Statistics in Engineering
- B CLIM 300 Fundamentals of Weather and Climate
- B CLIM 310 Energy and greenhouse gas management
- BISLEP 302 Policy Analysis or 301 Law, Economics, and Public Policy
- B CLIM 320 Impacts of Climate Change
- B CLIM 410 Climate Modeling and Data Analysis
- B CLIM 488 Climate Science and Policy Capstone: Undergraduate research or Internship

**Advanced Electives:** choose any 3 of the following courses (15 credits)
- Multivariable Calculus
- Differential Equations
- Geographical Information Systems (GIS)
- Remote sensing; Advanced Climate Modeling
- Atmospheric Chemistry and Physics
- Conservation & Sustainability Development
- Issues in Environmental Policy
- Governmental Responses to Climate Change
- Science, Expertise, and Public Policy
- Climate and Atmospheric Chemistry lab

**Political Economy of Energy; Sustainable Energy**

**Additional Courses**
As needed to fulfill University General Education Requirements and to equal 180 credits.

**Physics Minor**
The minor in Physics covers a broad range of fundamental physical sciences, with applications to other scientific and science related fields. Topics covered by the minor include classical and quantum mechanics, astrophysics, modern cosmology, mathematical physics, condensed matter physics, and biophysics, along with core subjects such as modern physics and thermodynamics. Students of biology, business, engineering, environmental science, chemistry, mathematics, and climate science will find relevant courses to further their education goals. The Minor in Physics requires completion of 30 credits, with minimum average GPA of 2.00.

**Required Courses (15 credits)**
- B PHYS 122 Electromagnetism and Oscillatory Motion
- B PHYS 123 Waves
- B PHYS 224 Thermal Physics

**Elective Courses (15 credits)** – Choose three courses from the following list:
- B PHYS 221 Classical Mechanics
- B PHYS 222 Modern Physics
- B PHYS 227 Mathematical Physics
- B PHYS 229 Biophysics I
- B PHYS 311 Introduction to Astrophysics I
- B PHYS 314 Introduction to Cosmology
- B PHYS 321 Electricity and Magnetism I
- B PHYS 324 Quantum Mechanics I
- B PHYS 328 Statistical Mechanics
- B PHYS 423 Condensed Matter Physics
- B PHYS 429 Biophysics II

Credit from courses such as electricity and magnetism (B EE 361) offered for engineers at UWB may be accepted as part of this minor.
School of Interdisciplinary Arts and Sciences

The School of Interdisciplinary Arts and Sciences offers students advanced interdisciplinary study in the arts and sciences. Students develop their ability to think analytically, critically and imaginatively; communicate logically and persuasively; and work creatively with others. These abilities prepare students to participate in workplace and civic leadership in a democratic society, to enrich their personal lives and their communities, and to appreciate and care for the natural environment. A liberal education develops both the knowledge underlying technical and professional learning, and the values on which enterprises, institutions, and global civilization depend.

Admission Requirements

Applicants applying to an Interdisciplinary Arts & Science major with 80 or more credits:
- 3 years high school math (2 years algebra) or Intermediate Algebra in college. Minimum grade of 2.0 if taken in college.
- Two years (high school) OR 10 quarter credits (college) of a single foreign language or through 102 with a passing grade.
- English Composition (ten quarter credits)
- Quantitative/Symbolic Reasoning (five quarter credits in Math or Logic). Does not apply to students who enrolled in college for the first time prior to Autumn Quarter, 1985.
- 15 quarter credits in Natural World (NW)
- 15 quarter credits in Visual, Literary, and Performing Arts (VLPA)
- 15 quarter credits in Individuals and Societies (I&S)

The following majors have additional admission prerequisites: Interdisciplinary Studies: Law, Economics and Public Policy; Society, Ethics and Human Behavior; the BA in Environmental Studies and the BS in Environmental Science.

Applicants applying to an Interdisciplinary Arts and Sciences major with 45-79 credits:
- Same as above, but only 10 credits needed in each of the Areas of Knowledge (Natural World; Visual, Literary and Performing Arts; Individuals and Societies).

Graduation Requirements

Students pursuing an Interdisciplinary Arts and Sciences BA or BS degree must complete the individual program requirements and Interdisciplinary Arts and Sciences School requirements, in addition to the general graduation requirements of the University.

School of Interdisciplinary Arts and Sciences Requirements

Interdisciplinary Inquiry (BIS 300)

The purpose of Interdisciplinary Inquiry (BIS 300) is to introduce and orient students to upper-division work in Interdisciplinary Arts and Sciences (IAS) courses. It encourages students to take intellectual risks with the goal of improving their abilities to read closely, write and think critically, communicate clearly and creatively, research effectively, and work collaboratively. Faculty teaching the core work closely with the staff in the Library, the Writing Center, and/or the Quantitative Skills Center, thus introducing students to the rich variety of resources and support services available to them at UW Bothell. Students are encouraged to think about how various types of knowledge are socially produced, how they as students can become active, creative, and self-critical producers of knowledge (in either academic or non-academic genres), and why IAS as a whole values interdisciplinary modes of inquiry. While individual sections of BIS 300 differ in their modes and emphases, they all encourage students to:
- Understand and appreciate the interdisciplinary production of knowledge and the ways in which it underwrites different aspects of IAS;
- Gain a critical understanding of IAS diverse and interrelated (inter) disciplinary fields and methods of inquiry;
- Become better critical thinkers and writers, ones who are capable of posing, answering, and reposing a variety of complex questions;
• Become better researchers, ones who are able to use the resources at UW Bothell and elsewhere in order to identify existing and complementary scholarly work while producing original knowledge through data gathering and interpretation;
• Become better speakers, ones who are able to communicate clearly and engagingly about complicated topics, arguments, and issues;
• Learn to work well collaboratively, as both learners and teachers.

Portfolio Capstone (BIS 499)
The Portfolio Capstone (BIS 499) is a 3-credit course that will focus on the completion of a student's final learning/professional portfolio, picking up on the work they have completed in BIS 300 Interdisciplinary Inquiry and throughout the program. It will allow students to step back from the learning they have done in individual courses, focusing on the connections among those courses and the links between the student’s overall academic accomplishments and their diverse contexts. Students should save their graded papers and projects so their work can be included in their final portfolio. BIS 499 is a writing-intensive (W) course. Students must receive a minimum grade of 2.5 in the Portfolio Capstone to satisfy the graduation requirement.

Interdisciplinary Practice & Reflection (IPR)
The Interdisciplinary Practice and Reflection (IPR) requirement ensures that all IAS students complete at least one course that requires an advanced research, creative, or experiential learning project before they graduate. IAS courses meeting this requirement are low-enrollment and high-impact. They typically involve close engagement with a faculty member and assume prior study in the area. These courses allow students to complete a project that draws on their academic interests and furthers their life ambitions. The project might be a seminar paper in a particular area of study; an academic internship in a relevant field; a service-learning project that builds on the student’s academic work; a study abroad opportunity; an art and media project or production. Courses that satisfy the IPR requirement ask students to reflect on the value, challenges, and effectiveness of their work in relation to their undergraduate education as a whole.

List of courses that satisfy the IPR requirement*
BES 462/3/4 Restoration Ecology Capstone (10 credits)
BES 498 Independent Research in Environmental Science
BIS 403 Washington DC Seminar on Human Rights
BIS 480 International Study Abroad
BIS 484 Arts Learning in the Community
BIS 490 Advanced Seminar
BIS 492 Senior Thesis (10 credits)
BIS 494 Task Force
BIS 495 Internship
BIS 496 Community Service Project
BIS 497 Political Internship in State Government
BIS 498 Undergraduate Research
BISCP 489 Projects in Community Psychology
BISIA 401 Literary Journal Editorial Board
BISIA 450 Image and Imagination
BISIA 483 Advanced Arts Workshop
BISMCS 472 Advanced Media Production Workshop
BISSKL 400 Policy Journal Editorial Board
BISSKL 402 Peer Facilitation
Any Graduate Course Offered in IAS

*All IAS students must complete at least 5 credits of IPR coursework. This requirement can be satisfied by one 5-credit course or multiple lower-credit courses. Students should talk with faculty members in their major and consult their degree webpages as they decide which of the courses listed above fit best with their academic training and life goals. Because artifacts produced in these courses are ideal for inclusion in students’ capstone portfolios, the IPR requirement should be satisfied prior to BIS 499. Many of the courses listed above have prerequisites, applications processes, priority registration for specific majors, or other requirements for enrollment. Please check the IAS website and course catalog for details.

Areas of Knowledge
Students must complete a minimum of 10 credits in UW Bothell coursework in each Area of Knowledge (Visual, Literary and Performing Arts; Individuals and Societies; Natural World) for a total of 25 credits in each Area of Knowledge. Credits taken to satisfy
Areas of Knowledge requirements can also count toward major requirements.

**Lower Division Coursework**
Up to 35 credits of 100-200 level coursework taken at UW Bothell may be applied to designated requirements within the 90 credits required for IAS majors. Coursework taken outside of UW Bothell must be completed at the 300-400 level in order to apply to the 90 required credits. Please contact an IAS adviser for details.

**Non-Matriculated Status**
No credits taken in non-matriculated status may count toward major requirements. Credits taken in non-matriculated status will count as electives only.

**Major Requirements**

**American and Ethnic Studies (BA)**
(Classes in this major are offered primarily during daytime hours.)

How have culture, power, and dissent shaped the diverse populations of the United States in relation to the larger world?

American and Ethnic Studies investigates the social forces, political institutions, and cultural productions that have created the United States and shaped what it means to be an "American." This major will help you develop a critical understanding of the categories that have shaped the emergence and reproduction of systems of power defined in relation to national citizenship. We pay particular attention to diverse and intersecting categories of race, place, ethnicity, gender, sexuality, class, nationality, and ability. Our courses examine the relationships between power, inequality, resistance, social and environmental justice, and difference. Using various scholarly methods, American and Ethnic Studies makes connections between past and present conditions. We educate students in historical and social inquiry, textual analysis and interpretation, and critical theory and practice.

The American and Ethnic Studies degree prepares students for careers in governmental, community-based, nonprofit or social justice organizations, or for graduate programs in legal, cultural, and historical fields.

While there are no official prerequisites, students choosing this major will find it helpful to have completed college coursework in American history, culture, and/or social structures.

**American and Ethnic Studies (AES) Requirements:**
BIS 300 Interdisciplinary Inquiry (5 credits)
BISAMS 305 Power, Dissent, and American Culture (5 credits)
BIS 312 Approaches to Social Research OR BIS 340 Approaches to Cultural Research (5 credits)
AES Courses (30 credits) to include a minimum of 5 credits from each of the following areas:
- Historical and Social Inquiry
- Textual Analysis and Interpretation
- Critical Theory and Practice

BIS 499 Portfolio Capstone (minimum grade of 2.5) (3 credits)
Additional IAS Coursework (20 credits)
General Electives (22 credits)

Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).

TOTAL= 90 credits

**American and Ethnic Studies (AES) Courses:**
Key:**AMS listing dependent upon topic

**A. Introduction to American and Ethnic Studies (AES core course)**
BISAMS 305 Power, Dissent, and American Culture

**B. Skills & Methods**
BIS 312 Approaches to Social Research
BIS 340 Approaches to Cultural Research

**C. Critical Theroy and Practice (CTP) :5 credits**
BIS 204 Introduction to Journalism
BIS 216 Introduction to Cultural Studies
BIS 219 The Politics of Sex Education
BIS 221 Gender and Sexuality
BIS 224 Introduction to Feminist Studies
BIS 242 Environmental Geography
BIS 275 Social Problems
BIS 310 Women, Culture, and Development
BIS 318 Education and Society
BIS 325 Disability and Human Rights
BIS 330 Democratic Capitalism in the United States
BIS 338 Political Institutions and Processes
BIS 352 Mapping Communities
BIS 353 Human Rights in Theory and Practice
BIS 369 Women Across Cultures
BIS 403 Washington D.C. Seminar on Human Rights
BIS 410 *Topics in Qualitative Inquiry
BIS 414 *Topics in Human Rights
BIS 415 Public Policy and Law
BIS 418 Masculinity, Homoeroticism, and Queer Theory in American Culture
BIS 426 Comparative Urban Politics
BIS 431 *Issues in Sexual Politics and Cultures
BIS 433 Gender, Work, and Family
BIS 443 Educational Policy and the American Economy
BIS 445 Meanings and Realities of Inequality
BIS 446 Science, Expertise, and Public Policy
BIS 448 Social Policy
BIS 455 Literature and Sexuality
BIS 465 Performance, History, and Memory
BIS 468 Human Rights and Sustainable Development
BISAMS 364 Public Memory and Dissent in American Culture
BISAMS 365 Popular and Consumer Culture
BISAMS 366 Americans at the Margins
BISAMS 367 Race, Ethnicity, and Immigration
BISAMS 368 Sex, Love, Romance
BISCLA 318 Performance, Identity, Community, and Everyday Life
BISGST 362 Contemporary Political Ideas and Ideologies
BISSEB 304 Institutions and Social Change
BISSEB 331 The Family in U.S. Society
BISSEB 333 The Individual and Society
BISSTS 307 Science, Technology, and Society
B EDUC 220 Education and Society
B EDUC 475 Global Perspectives on Diversity and Citizenship Education

**D. Historical and Social Inquiry (HSI): 5 credits**
BIS 224 Introduction to Feminist Studies
BIS 256 Introduction to African American Studies

BIS 257 Introduction to Asian American Studies
BIS 258 Introduction to Latino/Latina Studies
BIS 265 Multicultural America
BIS 266 United States History to 1865
BIS 267 United States History from 1865
BIS 280 U.S. Political Processes
BIS 309 History of Dance in Europe and America
BIS 318 Education and Society
BIS 327 History of U.S. Labor Institutions
BIS 335 Human Rights in America
BIS 336 Native American Cultures: The Northwest Coast
BIS 345 American Environmental Thought
BIS 347 History of American Documentary Films
BIS 357 Native American Religious and Philosophical Thought
BIS 370 Nineteenth-Century American Literature
BIS 371 Twentieth-Century American Literature
BIS 379 American Ethnic Literature
BIS 383 American Art and Architecture
BIS 385 Cross-Cultural Oral Traditions
BIS 389 American Indian Literature
BIS 391 Environmental History of the Pacific Northwest
BIS 418 Masculinity, Homoeroticism, and Queer Theory in American Culture
BIS 423 The City in American Culture
BIS 425 **Topics in United States Social and Political History
BIS 443 Educational Policy and the American Economy
BIS 444 **Issues in Comparative History
BIS 445 Meanings and Realities of Inequality
BIS 451 Northwest Indian Myths and Tales
BIS 463 U.S. Women’s History
BIS 465 Performance, History, and Memory
BIS 466 Human Rights and Resistance
BIS 467 Post-1945 U.S. Youth Culture: Culture, Theory, and History
BIS 481 Modernism, Postmodernism, and American Culture
BISAMS 363 Conflict, and Connection in the Americas
BISAMS 364 Public Memory and Dissent in American Culture
BISAMS 365 Popular and Consumer Culture
BISAMS 367 Race, Ethnicity, and Immigration
BISAMS 368 Sex, Love, and Romance
BISCLA 349 Hollywood Cinema and Genres
BISCLA 360 Literature, Film and Consumer Culture
E. Textual Analysis and Interpretation (TAI): 5 credits
BIS 216 Introduction to Cultural Studies
BIS 233 Participatory Media Culture
BIS 235 Critical Media Literacy
BIS 256 Introduction to African American Studies
BIS 257 Introduction to Asian American Studies
BIS 258 Introduction to Latino/Latina Studies
BIS 265 Multicultural America (Title Change Pending)
BIS 335 Human Rights in America
BIS 345 American Environmental Thought
BIS 347 History of American Documentary Films
BIS 357 Native American Religious and Philosophical Thought
BIS 361 Studies in American Literature
BIS 370 Nineteenth-Century American Literature
BIS 371 Twentieth-Century American Literature
BIS 375 Mexican Art and Culture
BIS 378 The Language of Poetry
BIS 379 American Ethnic Literatures
BIS 383 American Art and Architecture
BIS 387 Women and American Literature
BIS 389 American Indian Literature
BIS 407 Children’s Literature and Reader Response Criticism
BIS 418 Masculinity, Homoeroticism, and Queer Theory in American Culture
BIS 423 The City in American Culture
BIS 455 Literature and Sexuality
BIS 466 Human Rights and Resistance
BIS 470 Art, Politics, and Social Change
BIS 481 Modernism, Postmodernism, and American Literature
BIS 487 Topics in American Literature
BISAMS 364 Public Memory and Dissent in American Culture
BISAMS 368 Sex, Love, Romance
BISAMS 369 American Culture and Mass Media
BISCLA 349 Hollywood Cinema and Genres
BISCLA 360 Literature, Film and Consumer Culture
BISCLA 384 Literary and Popular Genres
BISMCS 333 Media and Communication Studies

Community Psychology (BA)
(Classes in this are offered primarily during daytime hours.)

Community psychology draws on interdisciplinary perspectives and approaches to examine social problems and promote the well-being of people in their communities. While the field draws heavily from psychology, it also draws from theory and practice in sociology, community development, ecology, public health, anthropology, cultural and performance studies, public policy, social work, and social justice movements. Through community research and action, community psychologists produce knowledge that can inform social policies, social service work, helping practices, and community change.

The Community Psychology major provides rigorous academic preparation for students who wish to pursue careers in human services, community development mental health, family and youth programs, counseling, prevention, program evaluation, community arts, multicultural program development, and human relations. The major also prepares students for graduate work in a variety of academic and applied research fields including Psychology, Sociology, Counseling, Public Health, and social work as well as interdisciplinary graduate work in the arts, humanities, and social sciences including Cultural Studies and Policy Studies.

There are no official prerequisites for Community Psychology. Useful preparation for this major includes coursework in psychology, sociology, anthropology, public policy, statistics and/or research methods. Students will need strong skills in writing, speaking, collaboration, and community-based work.

Community Psychology (CP) Requirements:
BIS 300 Interdisciplinary Inquiry (5 credits)
BIS 312 Approaches to Social Research (5 credits)
BIS 315 Understanding Statistics (5 credits)
BISCP 343 Community Psychology (5 credits)
CP Courses (25 credits)
BIS 499 Portfolio Capstone (3 credits)
Additional IAS Coursework (20 credits)
General Electives (22 credits)

Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).
TOTAL= 90 credits

Community Psychology (CP) Courses:

A. CP Core Course
BISCP 343 Community Psychology

B. Methods Courses
BIS 312 Approaches to Social Research
BIS 315 Understanding Statistics
BIS 410 Topics in Qualitative Inquiry
BIS 447 Topics in Quantitative Inquiry

C. Community Psychology Courses
BIS 219 The Politics of Sex Education
BIS 220 Developmental Psychology
BIS 223 Introduction to Narrative Ethnography
BIS 225 Applied Social Psychology
BIS 226 Foundations of U.S. Social Service
BIS 270 Abnormal Psychology
BIS 271 History of Psychology
BIS 316 Topics in Psychology
BIS 318 Education and Society
BIS 325 Disability and Human Rights
BIS 335 Human Rights in America
BIS 337 Risk and Resilience
BIS 348 Cultural Psychology
BIS 349 Personality Psychology
BIS 352 Mapping Communities
BIS 422 Clinical Psychology
BIS 433 Gender, Work, and Family
BIS 434 Psychology and the Visual Arts
BIS 435 Interactive Learning Theory
BIS 436 Comparative Family Systems
BIS 437 Narrative Psychology
BIS 438 Prevention and Promotion
BIS 445 Meanings and Realities of Inequality
BIS 446 Science, Expertise and Public Policy
BIS 449 Advanced Topics in Psychology
BIS 450 Performance and Healing
BISAMS 367 Exploring American Culture: Race, Ethnicity, and Immigration
BISCLA 318 Performance, Identity, Community, and Everyday Life
BISCP 489 Projects in Community Psychology
BISSEB 304 Institutions and Social Change
BISSEB 331 The Family in U.S. Society
BISSEB 333 The Individual & Society
BISSEB 359 Ethics and Society
BBIO 310 Brain & Behavior

BEDUC 220 Education & Society
BEDUC 456 Adolescents in School and Society
BEDUC 461 Education and Gender Inequality

D. Topics (CP Listing dependent on topic)
BIS 293 Special Topics
BIS 322 Topics in Performance Studies
BIS 346 Topics in Environmental Policy
BIS 393 Special Topics
BIS 425 Topics in United States Social and Political History
BIS 440 Topics in Everyday Cultural and Social Life
BISMCS 471 Advanced Topics in Media and Communication
BIS 480 International Study Abroad
BIS 485 Topics in Cultural Studies
BIS 491 Topics in Policy Studies
BIS 493 Special Topics
BIS 496 Community Service Project

Culture, Literature, and the Arts (BA)
What is culture? How do literature and the visual and performing arts travel across cultures?

Culture, Literature, and the Arts (CLA) addresses these questions by seeking to understand the production and reception of literature, film, and the visual and performing arts through aesthetic, theoretical, historical, and sociological methods. Faculty who teach in CLA draw on a wide range of disciplinary and interdisciplinary fields, including art history, literature, film, environmental studies, creative writing, performance studies, cultural and media studies, disability studies, history, gender and race studies, and philosophy. CLA students learn to appreciate and think critically about how cultural practices vary across diverse social systems, and are strongly encouraged to take advantage of opportunities to participate in public and community-based arts projects.

CLA graduates are well equipped to pursue graduate education in a range of programs related to the interdisciplinary arts, humanities, and humanistic social sciences, as well as professional fields such as law, policy, education, and journalism. CLA also provides excellent preparation for careers in publishing, public relations, and public service,
especially in the context of community and public arts organizations.

While there are no official prerequisites, students choosing this major will find it helpful to be able to write an analytical paper and should have at least two courses in literature, the visual arts, or performance. Historical knowledge and competency in foreign languages is also highly desirable.

Culture, Literature and the Arts (CLA) Requirements:
BIS 300 Interdisciplinary Inquiry (5 credits)
CLA Core (5 credits)
CLA Courses (35 credits)
BIS 499 Portfolio Capstone (3 credits)
Additional IAS Coursework (20 credits)
General Electives (22 credits)
Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).

TOTAL = 90 Credits

Culture, Literature and the Arts (CLA) Courses:
Key: ** CLA listing dependent upon topic.

A. Introduction to Culture, Literature and the Arts (CLA core courses)
BISCLA 318 Performance, Identity, Community and Everyday Life
BISCLA 349 Hollywood Cinema and Genres
BISCLA 360 Literature, Film and Consumer Culture
BISCLA 372 Comparative Arts in 18th Century Europe
BISCLA 380 Art and Its Context
BISCLA 384 Literary and Popular Genres

B. Creative Writing
BISIA 207 Introduction to Creative Writing: Words, Stories, Dialogues
BISIA 310 Creative Writing: Poetry
BISIA 311 Creative Writing: Prose
BISIA 410 Advanced Creative Writing Workshop

C. Art, Film, and Literary Histories
BIS 206 Engaging Literary Arts
BIS 208 Experimenting through the Arts
BIS 209 Engaging Visual Arts

BIS 212 Engaging Performing Arts
BIS 215 Literature into Film
BIS 301 Narrative Forms
BIS 309 History of Dance in Europe and America
BIS 347 History of American Documentary Film
BIS 361 Studies in American Literature
BIS 370 Nineteenth Century American Literature
BIS 371 Twentieth Century American Literature
BIS 376 Circa 1500: Arts of West and East
BIS 378 Languages of Poetry
BIS 379 American Ethnic Literatures
BIS 382 The Visual Art of Biology
BIS 383 American Art and Architecture
BIS 387 Women and American Literature
BIS 389 American Indian Literature
BIS 407 Children’s Literature and Reader Response Criticism
BIS 451 Northwest Indian Myths and Tales
BIS 465 Performance, History, and Memory
BIS 476 Issues in Art History
BIS 481 Modernism, Postmodernism, and American Literature
BISIA 240 Visual and Media Art Techniques
BISIA 283 Interdisciplinary Art Techniques
BISIA 319 Interdisciplinary Arts
BISIA 340 Visual and Media Arts Workshop
BISIA 350 Photography and Digital Art

BISIA 383 Interdisciplinary Arts Workshop
BISIA 450 Image & Imagination
BISIA 483 Advanced Arts Workshop
BISIA 484 Arts Learning in the Community

D. Thought and Theory
BIS 308 Issues in Philosophy and Culture
BIS 357 Native American Religious and Philosophical Thought
BIS 452 Marx, Nietzsche, Freud
BIS 460 **Topics in Critical Theory
BIS 461 Studies in U.S. Intellectual and Cultural History

E. Culture Studies
BIS 203 History of InterArts
BIS 204 Introduction to Journalism
BIS 205 Technologies of Expression
BIS 216 Introduction to Cultural Studies
BIS 222 Travel and Cultural Difference
BIS 223 Introduction to Narrative Ethnography
BIS 233 Participatory Media Culture
BIS 235 Critical Media Studies
BIS 236 Introduction to Interactive Media
BIS 256 Introduction to African American Studies
BIS 260 Introduction to World Religions
BIS 264 Africa on Film
BIS 265 Multicultural America
BIS 310 Women, Culture and Development (formerly offered under BIS 339)
BIS 313 Issues in Media Studies
BIS 314 **Topics in Geography
BIS 317 Language, Society and Cultural Knowledge
BIS 322 Topics in Performance Studies
BIS 325 Disability and Human Rights
BIS 329 **Topics in Mathematics Across the Curriculum
BIS 339 Issues in Global Cultural Studies
BIS 340 Approaches to Cultural Research
BIS 341 Topics in the Study of Culture
BIS 345 Ethics and the Environment
BIS 348 Cultural Psychology
BIS 351 Topics in American Culture
BIS 354 Modern European Intellectual History
BIS 369 Women Across Cultures
BIS 373 Cultural History of Rome
BIS 375 Mexican Art and Culture
BIS 384 Health, Medicine & Society
BIS 385 Cross-Cultural Oral Traditions
BIS 417 Paris: The City and Its History
BIS 418 Masculinity, Homoeroticism, and Queer Theory in America
BIS 423 The City in American Culture
BIS 424 Topics in American Studies
BIS 431 **Issues in Sexual Politics and Cultures
BIS 434 Psychology and the Visual Arts
BIS 440 **Topics in Everyday Social and Cultural Life
BIS 449 **Advanced Topics in Psychology
BIS 450 Performance and Healing
BIS 455 Literature and Sexuality
BIS 462 The Culture of the Cold War in America
BIS 464 Topics in Advanced Cinema Studies
BIS 465 Performance, History, and Memory
BIS 467 Post 1945 U.S. Youth Culture
BIS 470 Art, Politics, and Social Change
BIS 474 Topics in European Cultural History
BIS 478 Art Patronage and Markets
BIS 480 **International Study Abroad
BIS 485 **Topics in Cultural Studies
BIS 486 Studies in Women and Literature
BIS 487 Topics in American Literature
BIS 488 Topics in British Literature
BIS 491 **Topics in Policy Studies
BIS 496 **Community Service Project
BISAMS 364 Public Memory and Dissent in American Culture
BISAMS 365 Exploring American Culture: Popular and Consumer Culture
BISAMS 366 Exploring American Culture: Americans at the Margin
BISAMS 367 Exploring American Culture: Race, Ethnicity, and Immigration
BISAMS 368 Sex, Love, Romance
BISAMS 369 American Culture and Mass Media
BISGST 397 **Topics in Global Studies
BISGST 497 **Advanced Topics in Global Studies
BISMCS 234 **Media and Communication Techniques
BISMCS 333 Media and Communication Studies
BISMCS 343 **Media Production Workshop
BISMCS 471 **Advanced Topics in Media and Communication
BISMCS 472 **Advanced Media Production Workshop
BISSTS 397 ** Topics in Science, Technology, and Society
BISSTS 497 **Advanced Topics in Science, Technology, and Society

F. Historical Epochs
BIS 261 World History I
BIS 262 World History II
BIS 263 World History III
BIS 266 United States History to 1865
BIS 267 United States History from 1865
BIS 326 Twentieth Century Eastern Europe
BIS 400 Modern Japan
BIS 402 Modern China
BIS 404 Twentieth Century Russia
BIS 409 Modern Germany
BIS 427 Global History I
BIS 428 Global History II
BIS 429 Global History III
BIS 444 **Issues in Comparative History

Environmental Science (BS)
The Bachelor of Science in Environmental Science prepares students to address environmental challenges facing the world today. Environmental Science students in each of the major's two degree
pathways (Conservation & Restoration Ecology and Earth System Science) develop the depth of scientific understanding, interdisciplinary perspectives, and creative problem-solving skills needed to design and bring about solutions to these problems at local, regional, and global scales.

The Environmental Science major combines focused study in the natural sciences with a broadly interdisciplinary curriculum, highlighting the ethical, historical, and policy dimensions of environmental issues. By participating in community-based projects ranging from wetlands restoration and conservation planning to analyses of regional air and water pollution, students gain practical experience and make a positive difference while they are still in school.

**Prerequisites for admission to the BS in Environmental Science:**
One quarter of Calculus (BCUSP 124 or equivalent)
Three quarter General Chemistry sequence (BCUSP 142, 152, 162 or equivalent)
One introductory Earth System Science course (BIS 242, BST 200 or Physical Geography or Oceanography or equivalent)
One introductory Environmental Studies course (BIS 240 or BIS 243 or equivalent)
Completion of the prerequisites for either the Conservation & Restoration Ecology (CRE) pathway or the Earth Systems Science (ESS) pathway

**CRE pathway prerequisites:**
Three quarter introductory Biology sequence (B BIO 180, 200, 220 or equivalent)

**ESS pathway prerequisites:**
One quarter of introductory Biology (B BIO 180 or equivalent)
One quarter introductory Physics
A second quarter of introductory Physics (or a second quarter of Calculus, BCUSP 125 or equivalent)

**Graduation Requirements**
BIS 300 Interdisciplinary Inquiry (5 credits)
BES 301 Science Methods & Practice (5 credits)
BIS 315 Understanding Statistics (5 credits)
BES 312 Ecology (5 credits)

BES 303 Environmental Monitoring Practicum (2 credits)
BIS 342 Geographic Information Systems OR BES 439 Computer Modeling & Visualization in Environmental Science (5 credits)
BES Capstone or approved Independent Research (10 credits)
BIS 499 Portfolio Capstone (3 credits)

Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).

**Pathway Requirements** *(students must choose one pathway)*

**Pathway Core Course Requirements for CRE (25 credits):**
BES 316 Ecological Methods (5 credits)
BES 362 Introduction to Restoration Ecology (5 credits)
BES 485 Conservation Biology (5 credits)
BES 318 Hydrogeology (5 credits) OR BES 311 Environmental Chemistry (5 credits)

**Pathway Distribution Requirements for CRE (20 credits):**
(See below for courses that satisfy pathway requirements)
Environmental Science (5 credits)
Methods and Practices (5 credits)
Society and Environment (5 credits)
Environmental Policy and Management (5 credits)

**Pathway Core Course Requirements for ESS (15 credits):**
BES 311 Environmental Chemistry (5 credits)
BES 315 Environmental Chemistry Lab (5 credits)
BES 318 Hydrogeology (5 credits)

**Pathway Distribution Requirements for ESS (25 credits):**
(See below for courses that satisfy pathway requirements)
Environmental Science (5 credits)
Methods and Practices (10 credits)
Society and Environment (5 credits)
Environmental Policy and Management (5 credits)
General Electives (10 credits)
The following courses satisfy distribution requirements in the Bachelor of Science in Environmental Science. An open box indicates the course satisfies the distribution requirement for that pathway. A shaded box indicates that it does not. Courses are 5 credits unless indicated otherwise in parentheses. Courses taken to fulfill pathway cores may not be used to fulfill distribution requirements.

Environmental Science Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CRE Pathway</th>
<th>ESS Pathway</th>
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</thead>
<tbody>
<tr>
<td>BES 311</td>
<td>Environmental Chemistry</td>
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<tr>
<td>BES 315</td>
<td>Environmental Chemistry Lab</td>
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<td>BES 318</td>
<td>Hydrogeology</td>
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<tr>
<td>BES 362</td>
<td>Introduction to Restoration Ecology</td>
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<td>BES 397</td>
<td>Special Topics in Environmental Science</td>
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<td>BES 430</td>
<td>Air Pollution and Health</td>
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<tr>
<td>BES 485</td>
<td>Conservation Biology</td>
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<td>BES 488</td>
<td>Wetland Ecology</td>
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<tr>
<td>BES 489</td>
<td>Pacific Northwest Ecosystems</td>
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<tr>
<td>BES 490</td>
<td>Pacific NW Plants in Restoration &amp; Conservation</td>
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<tr>
<td>BIS 241</td>
<td>Nature and the Northwest</td>
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<tr>
<td>BIS 306</td>
<td>Marine Diversity and Conservation</td>
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<tr>
<td>BIS 342</td>
<td>Geographic Information Systems</td>
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<tr>
<td>BIS 395</td>
<td>Environmental Change in Washington State</td>
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Methods & Practices Courses

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<thead>
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<th>Course Title</th>
<th>CRE Pathway</th>
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</thead>
<tbody>
<tr>
<td>BES 302</td>
<td>Environmental Problem Solving</td>
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<tr>
<td>BES 316</td>
<td>Ecological Methods</td>
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<tr>
<td>BES 317</td>
<td>Soils Laboratory</td>
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<td>BES 415</td>
<td>Advanced Environmental Measurements Laboratory</td>
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<td>BES 439</td>
<td>Computer Modeling &amp; Visualization in Environ. Science</td>
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<td>BES 460</td>
<td>Water Quality</td>
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<td>BES 487</td>
<td>Field Lab in Wildland Plants and Soils</td>
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<td>BES 490</td>
<td>Pacific NW Plants in Restoration &amp; Conservation</td>
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<tr>
<td>BIS 232</td>
<td>Using, Understanding &amp; Visualizing Quantitative Data</td>
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<tr>
<td>BIS 359</td>
<td>Principles &amp; Controversies of Sustainability</td>
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<tr>
<td>BIS 442</td>
<td>Advanced GIS</td>
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</table>

Environmental Policy & Management Courses

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CRE Pathway</th>
<th>ESS Pathway</th>
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</thead>
<tbody>
<tr>
<td>BES 486</td>
<td>Watershed Ecology &amp; Management</td>
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<tr>
<td>BIS 307</td>
<td>Environmental Justice</td>
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<td>BIS 346</td>
<td>Topics in Environmental</td>
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</tbody>
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200 Climate Science
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>CRE Pathway</th>
<th>ESS Pathway</th>
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</thead>
<tbody>
<tr>
<td>BIS 240</td>
<td>Introduction to Sustainable Practices</td>
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<tr>
<td>BIS 242</td>
<td>Environmental Geography</td>
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<tr>
<td>BIS 244</td>
<td>Wetlands Discovery</td>
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<td></td>
<td>(2 credits)</td>
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<tr>
<td>BIS 307</td>
<td>Environmental Justice</td>
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<td>BIS 345</td>
<td>American Environmental Thought</td>
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<tr>
<td>BIS 356</td>
<td>Ethics and the Environment</td>
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<tr>
<td>BIS 358</td>
<td>Issues in Environmental Science</td>
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<tr>
<td>BIS 386</td>
<td>Global Environmental Issues</td>
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<tr>
<td>BIS 390</td>
<td>Ecology and the Environment</td>
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<td>BIS 391</td>
<td>Environ. History of the Pacific Northwest Bioregion</td>
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<tr>
<td>BIS 392</td>
<td>Water and Sustainability</td>
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<tr>
<td>BIS 396</td>
<td>Topics in Sustainability</td>
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<td>BIS 397</td>
<td>Topics in Environmental Studies</td>
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<tr>
<td>BIS 405</td>
<td>Environmental Education</td>
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<td></td>
<td>(3 credits)</td>
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<tr>
<td>BIS 411</td>
<td>Biotechnology and Society</td>
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Note: Students should refer to the Bachelor of Science in Environmental Science website for the most up-to-date course lists: [http://www.uwb.edu/IAS/bs/](http://www.uwb.edu/IAS/bs/).

**Environmental Studies (BA)**

(Classes in this major are offered primarily during daytime hours.)

The Bachelor of Arts in Environmental Studies is designed for students who want to act critically and creatively in response to the environmental challenges facing the world today. The major's two pathways (Sustainability and Society [S&S] and Conservation Science and Management [CSM]) share a commitment to educating future practitioners who can address those challenges in their professional careers and personal lives.

Environmental Studies teaches students to integrate environmental knowledge across the natural and social sciences, as well as the arts and humanities. Hands-on learning, field experiences, and problem-based instruction focus on finding answers to complex problems that include scientific, social, political, cultural, and ethical dimensions.

Graduating Environmental Studies students develop careers in management, planning, advocacy, communications, and policy-making across a wide array of for-profit and not-for-profit organizations. They also pursue disciplinary and interdisciplinary graduate education in environmental fields that range across the arts, humanities, and social and natural sciences.

**Prerequisites:**

Two introductory lab courses in Biology, Chemistry OR Earth Systems Science (may be from two different areas)
One introductory Statistics course (BIS 232, BIS 315 or equivalent). Students can be admitted to the major without having met this requirement if they enroll in BIS 315 during their junior year.

Environmental Studies Requirements:
BIS 300 Interdisciplinary Inquiry
BIS 243 Introduction to Environmental Studies
BES 301 Science Methods & Practice OR BIS 312 Approaches to Social Research
BES 312 Ecology OR BIS 390 Ecology and the Environment
BCUSP 200, BIS 320, BISGST 324, BIS 394 or equiv. Economics (Political Economy or Environmental Economics)
BIS 356 Ethics and the Environment OR BIS 345 American Environmental Thought
BIS 499 Portfolio Capstone (3 credits)

Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).

Pathway Requirements- choose Sustainability & Society or Conservation Science & Management
Sustainability and Society (S&S)
10 Credits of Sustainability Focus Courses (choose 2 courses)
BIS 240 Introduction to Sustainable Practices (5 credits)
BIS 359 Principles & Controversies of Sustainability (5 credits)
BIS 392 Water & Sustainability (5 credits)
BIS 459 Conservation & Sustainability Development (5 credits)
BIS 468 Human Rights and Sustainable Development (5 credits)

-OR-
Conservation Science & Management Pathway (CSM)
10 credits of Core Requirements
BIS 342 Geographic Information Systems (5 credits)
BES 485 Conservation Biology (5 credits)

Distribution Requirements --Both Pathways

20 Credits
Environmental Science (5 credits)
Methods & Practice (5 credits)
Society & Environment (5 credits)
Policy & Management (5 credits)

General Electives -- 27 credits

TOTAL= 90 credits

Environmental Studies (ES) Distribution Courses:

Environmental Science
BST 200 Introduction to Climate Science (if not used as a prerequisite)
BIS 241 Nature in the Northwest
BIS 242 Environmental Geography (if not used as a prerequisite)
BIS 306 Marine Diversity and Conservation
BES 311 Environmental Chemistry
BES 312 Ecology
BES 318 Hydrogeology
BES 362 Introduction to Restoration Ecology
BIS 386 Global Environmental Issues
BIS 395 Environmental Change in WA State
BES 397 Special Topics in Env. Science
BES 430 Air Pollution and Health
BES 460 Water Quality
BES 485 Conservation Biology
BES 488 Wetland Ecology
BES 489 Pacific Northwest Ecosystems
BES 490 Pacific Northwest Plants in Restoration & Conservation

Methods & Practices
BIS 232 Using, Understanding & Visualizing Quantitative Data
BES 302 Environmental Problem Solving
BES 303 Environmental Monitoring Practicum (2 credits)
BES 316 Ecological Methods
BES 317 Soils Laboratory
BIS 340 Approaches to Cultural Research
BIS 342 Geographic Information Systems
BIS 343 Geographic Visualization
BIS 405 Environmental Education
BIS 410 Topics in Qualitative Inquiry
BES 415 Advanced Environmental Measurements Laboratory
BIS 430 Social Theory and Practice
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BES 439</td>
<td>Computer Model. &amp; Visual in Environmental Science</td>
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<tr>
<td>BIS 442</td>
<td>Advanced Geographic Information Systems</td>
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<tr>
<td>BIS 460</td>
<td>Water Quality</td>
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<tr>
<td>BES 462</td>
<td>Restoration Ecology Capstone I (2 credits)</td>
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<td>BES 463</td>
<td>Restoration Ecology Capstone II (3 credits)</td>
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<tr>
<td>BES 487</td>
<td>Field Lab Wildland Plants and Soils</td>
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<td>BES 490</td>
<td>Pacific Northwest Plants in Restoration &amp; Conservation</td>
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<td>BEDUC 493</td>
<td>Environmental Education</td>
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<tr>
<td>BIS 240</td>
<td>Introduction to Sustainable Practices</td>
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<tr>
<td>BIS 242</td>
<td>Environmental Geography (if not used as a prerequisite)</td>
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<td>BIS 244</td>
<td>Wetlands Discovery</td>
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<td>BIS 282</td>
<td>Globalization</td>
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<td>BES 302</td>
<td>Env. Problem Solving</td>
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<tr>
<td>BISGST 303</td>
<td>History and Globalization</td>
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<tr>
<td>BISSEB 304</td>
<td>Institutions and Social Change</td>
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<td>BIS 307</td>
<td>Environmental Justice</td>
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<td>BIS 320</td>
<td>Comparative Political Economies</td>
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<td>BISGST 324</td>
<td>International Political Economy</td>
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<td>BIS 345</td>
<td>American Environmental Thought</td>
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<td>BIS 353</td>
<td>Human Rights Theory &amp; Practice</td>
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<td>BIS 356</td>
<td>Ethics and the Environment</td>
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<td>BIS 358</td>
<td>Issues in Environmental Science</td>
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<td>BISSEB 359</td>
<td>Ethics and Society</td>
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<td>BISGST 362</td>
<td>Contemporary Political Ideas &amp; Ideologies</td>
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<td>BIS 386</td>
<td>Global Environmental Issues</td>
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<td>BIS 391</td>
<td>Environmental History of the Pacific Northwest</td>
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<td>BIS 392</td>
<td>Water and Sustainability</td>
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<td>BIS 394</td>
<td>Comparative Economic Development</td>
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<td>BIS 397</td>
<td>Topics in Environmental Studies</td>
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<tr>
<td>BIS 411</td>
<td>Biotechnology and Society</td>
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<tr>
<td>BIS 458</td>
<td>Energy, Environment &amp; Society</td>
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<td>BIS 459</td>
<td>Conservation and Sustainable Development</td>
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<tr>
<td>BIS 468</td>
<td>Human Rights and Sustainable Development</td>
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<td>BES 464</td>
<td>Restoration Ecology Capstone III</td>
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<td>BES 485</td>
<td>Conservation Biology</td>
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<td>BES 486</td>
<td>Watershed Ecology &amp; Management</td>
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<td>BIS 307</td>
<td>Environmental Justice</td>
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<td>BIS 338</td>
<td>Political Institutions &amp; Processes</td>
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<td>BIS 346</td>
<td>Topics in Environmental Policy</td>
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<tr>
<td>BES 362</td>
<td>Introduction to Restoration Ecology</td>
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<td>BIS 406</td>
<td>Urban Planning</td>
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<td>BIS 415</td>
<td>Public Policy and Law</td>
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<td>BIS 419</td>
<td>Urban Politics and Policy</td>
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<td>BIS 458</td>
<td>Energy, Environment and Society</td>
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<td>BIS 466</td>
<td>Science, Expertise and Democracy</td>
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<tr>
<td>BST 445</td>
<td>Political Economy of Energy</td>
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</tbody>
</table>

**Global Studies (BA)**

What does it mean to be a global citizen? How do local and global beliefs, events, and institutions travel across and structure the world we live in today?

Global Studies (GST) addresses these questions by exploring the economic, cultural, and political systems that unite and divide people across the world. Faculty who teach in GST work across a wide range of disciplinary and interdisciplinary fields, including history, anthropology, sociology, political economy, cultural and media studies, environmental science, and the scholarship of human rights. GST students learn to think critically about the history and practice of globalization through interpretation, empirical research, and project-based learning.

Graduating GST students are particularly well-equipped to pursue professional careers or advanced study in public policy, business, international relations, community and non-governmental organizations, law, education, media and cultural studies, and area studies.

While there are no official requirements, students choosing this major will find it especially helpful to have completed college coursework in economics, world history and culture, statistics, political science, geography, anthropology, and foreign languages.

Global Studies (GST) Requirements:

- BIS 300 Interdisciplinary Inquiry (5 credits)
- BISGST 303 History and Globalization (5 credits)
- Methods course (5 credits)
- GST Courses (30 credits)
- BIS 499 Portfolio Capstone (3 credits)
- Additional IAS Coursework (20 credits)
- General Electives (22 credits)

Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).
TOTAL = 90 credits

Global Studies (GST) Courses:

A. GST Core Course
BISGST 303 History and Globalization

B. Methods Courses
BES 301 Science Methods and Practice
BIS 312 Approaches to Social Research
BIS 315 Understanding Statistics
BIS 340 Approaches to Cultural Research
BIS 342 Geographic Information Systems

C. GST Courses
BIS 218 The Power of Maps
BIS 222 Travel and Cultural Difference
BIS 224 Introduction to Feminist Studies
BIS 230 Mathematical Thinking for the Liberal Arts
BIS 232 Using, Understanding and Visualizing Quantitative Data
BIS 233 Participatory Media Culture
BIS 242 Environmental Geography
BIS 260 Introduction to World Religions
BIS 261 World History I
BIS 262 World History II
BIS 263 World History III
BIS 264 Africa on Film
BIS 281 Global Politics
BIS 282 Globalization
BIS 284 International Relations
BIS 310 Women, Culture & Development
BIS 317 Language, Society and Cultural Knowledge
BIS 320 Comparative Political Economies
BIS 325 Disability and Human Rights
BIS 326 Twentieth Century Eastern Europe
BIS 332 The Rise of East Asia
BIS 334 Traditional Chinese History
BIS 339 Issues in Global Cultural Studies
BIS 340 Approaches to Cultural Research
BIS 342 Geographic Information Systems
BIS 353 Human Rights in Theory and Practice
BIS 354 Modern European Intellectual History
BIS 369 Women Across Cultures
BIS 373 Cultural History of Rome
BIS 374 Middle East Politics
BIS 376 Circa 1500: Arts of West and East
BIS 386 Global Environmental Issues
BIS 394 Comparative Economic Development
BIS 400 Modern Japan

BIS 402 Modern China
BIS 403 Washington D.C. Seminar on Human Rights
BIS 404 Twentieth Century Russia
BIS 409 Modern Germany
BIS 413 Nations and Nationalism
BIS 414 Topics in Human Rights
BIS 416 Problems in International Political Economy
BIS 417 Paris: The City and Its History
BIS 420 Colonizing History in Sub-Saharan Africa
BIS 426 Comparative Urban Politics
BIS 427 Global History I
BIS 428 Global History II
BIS 429 Global History III
BIS 430 Social Theory and Practice
BIS 432 Democracy in Asia
BIS 436 Comparative Family Systems
BIS 441 Global Labor Markets
BIS 459 Conservation and Sustainable Development
BIS 466 Human Rights and Resistance
BIS 468 Human Rights and Sustainable Development
BIS 480 International Study Abroad
BISAMS 363 Conflict and Connections in the Americas
BISAMS 367 Race, Ethnicity and Immigration
BISGST 324 International Political Economy
BISGST 362 Contemporary Political Ideas and Ideologies
BISGST 397 Topics in Global Studies
BISGST 497 Advanced Topics in Global Studies
BISMCS 333 Media and Communication Studies
B EDUC 475 Global Perspectives on Diversity and Citizenship Education (3 credits)

Interdisciplinary Arts (BA)
(Classes in this major are offered primarily during daytime hours.)

The Interdisciplinary Arts (IA) major is designed for students who want to create art and learn about the world through the creative arts. It links written, visual, media, and performance arts, and explores meaning and potential arts making across diverse social and cultural settings.

Coursework includes studios, workshops, seminars, and community-based projects. The flexible curriculum enables students to hone their skills as arts practitioners while drawing connections to cultural and media studies, environmental and
disability issues, health and policy arenas, and community and educational development.

IA graduates become independent artists, build careers in arts and cultural industries as curators and administrators, and develop arts-based projects in a range of employment sectors, including health, media, and education. They are also prepared for graduate education in the arts and humanities, cultural studies, and Master of Fine Arts fields.

There are no formal prerequisites for Interdisciplinary Arts. Useful preparation for this major includes formal and informal training in visual, written, digital, and/or performing arts. Students will need strong skills in collaborative and creative problem-solving.

Interdisciplinary Arts (IA) Requirements:
BIS 300 Interdisciplinary Inquiry (5 credits)
BISIA 319 Interdisciplinary Arts (5 credits)
Art Studios and Art Workshops (15 credits)
IA Courses (20 credits)
BIS 499 Portfolio Capstone (3 credits)
Additional IAS Coursework (20 credits)
General Electives (22 credits)

Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).

TOTAL= 90 credits

Interdisciplinary Arts (IA) Courses:
A. IA Core Course
BISIA 319 Interdisciplinary Arts

B. Art Studios and Art Workshops
BISIA 207 Introduction to Creative Writing: Words, Stories, Dialogues
BISIA 240 Visual and Media Art Techniques
BISIA 283 Interdisciplinary Art Techniques
BISIA 310 Creative Writing: Poetry
BISIA 311 Creative Writing: Prose
BISIA 340 Visual and Media Arts Workshop
BISIA 350 Photography & Digital Art
BISIA 373 Interdisciplinary Arts Workshop
BISIA 410 Advanced Creative Writing Workshop
BISIA 450 Image & Imagination
BIS 450 Performance and Healing
BISIA 483 Advanced Arts Workshop
BISIA 484 Arts Learning in the Community

C. IA Courses
BIS 203 History of InterArts
BIS 206 Engaging Literary Arts
BIS 208 Experimenting With the Arts
BIS 209 Engaging Visual Arts
BIS 212 Engaging Performing Arts
BIS 215 Literature into Film
BIS 301 Narrative Forms
BIS 309 History of Dance in Europe and America
BIS 347 History of American Documentary Film
BIS 348 Cultural Psychology
BIS 369 Women Across Cultures
BIS 373 The Cultural History of Rome
BIS 376 Circa 1500: Arts of West and East
BIS 378 Languages of Poetry
BIS 382 Visual Arts of Biology
BIS 383 American Art and Architecture
BIS 417 Paris: The City and its History
BIS 431 Sexual Politics and Cultures
BIS 434 Psychology and the Visual Arts
BIS 435 Interactive Learning: Theory and Practice
BIS 457 Thinking and Decision Making
BIS 460 Topics in Critical Theory
BIS 464 Topics in Advanced Cinema Studies
BIS 470 Art, Politics, and Social Change
BIS 471 Women in Art
BIS 474 Topics in European Cultural History
BIS 476 Issues in Art History
BIS 478 Art Patronage and Markets
BIS 486 Studies in Women and Literature
BISAMS 366 Americans at the Margins
BISAMS 367 Race, Ethnicity, and Immigration
BISCLA 318 Performance, Identity, Community, and Everyday Life
BISCLA 360 Literature, Film and Consumer Culture
BISCLA 372 Comparative Arts in Eighteenth-Century Europe
BISCLA 380 Art and its Context
BISCLA 384 Literature and Popular Genres
BISIA 401 Literary and Arts Journal
BISMCS 333 Media and Communication Studies

Individualized Study (BA)
Individualized Study is designed for highly-motivated students who want to create their own course of
Individualized Study allows students to create degree options in subjects ranging from science communication and environmental education to gender studies and digital arts. The resulting student-driven curriculum includes formal and informal meetings between students and their faculty mentors, along with a portfolio-based process of self-reflection on the learning as it evolves. Students interested in pursuing the Individualized Study option work with a faculty member to develop a substantive proposal. This proposal is then reviewed by a faculty oversight committee. Once approved, requirements vary from proposal to proposal.

Graduating students develop careers and pursue graduate education in a wide variety of fields, depending on their chosen area of study. As important, they gain experience and document success in one of the crucial predictors of success in any of those fields: the ability to undertake a self-directed project in collaboration with others, to reflect critically on its development in process, and to complete it in a timely fashion.

Students cannot apply directly to this major. Students apply in their junior year after they have completed at least one quarter of coursework in IAS, including BIS 300. Standard UW and IAS degree requirements including BIS 300, the portfolio capstone, and areas of knowledge, remain in effect, as they do for all other IAS degree options and majors, with a total of 180 credits required for graduation.

Law, Economics and Public Policy (BA)
(Classes in this major are offered primarily during day time hours.)

What do you need to know to effectively participate in legal and policy processes and decisions?

The Law, Economics and Public Policy (LEPP) major is designed for students who want to explore how legal institutions shape policy decisions and the political and economic contexts that influence the creation of the law. The degree provides a grounding in economics and political science as students learn to analyze legal and policy problems, alternatives, and consequences.

The LEPP curriculum combines theoretical analysis and practical experience through applied coursework and undergraduate research, community-based learning and academic internship opportunities, and the possibility of contributing to and working on the UW Bothell Policy Journal. Like all IAS degrees, LEPP emphasizes core capacities in critical and creative thinking, interdisciplinary research, collaboration and shared leadership, and writing and communication.

Students in LEPP build a powerful foundation for careers with non-governmental organizations, policy analysis think-tanks, and local, state, and federal government. LEPP graduates are prepared to undertake graduate study in law, policy studies, public policy, and management, among other fields.

Prerequisites:
In addition to the general admission requirements, students must have completed the following prerequisites to be considered for admission to the Bachelor of Arts in Interdisciplinary Studies: Law, Economics and Public Policy:

Microeconomics (B CUSP 200, ECON 200 or equivalent)
Introduction to American Government or American Politics (B CUSP 175, BIS 280, POL S 202 or equivalent)

Law, Economics and Public Policy (LEPP) Requirements:
BIS 300 Interdisciplinary Inquiry (5 credits)
BISLEP 301 Law, Economics & Public Policy (5 credits)
BISLEP 302 Policy Analysis (5 credits)
BIS 315 Understanding Statistics (5 credits)
Additional Skills & Methods coursework (5 credits)
Policy Foundation courses (10 credits)
Policy Foundation or Policy Problem courses (10 credits)
Additional IAS Coursework (20 credits)
BIS 499 Portfolio Capstone (3 credits)
General Electives (22 credits)

Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).

TOTAL= 90 credits

**Law, Economics and Public Policy (LEPP) Courses:**
Key: ** LEPP listing dependent on topic.

A. LEPP Core Courses
BISLEP 301 Law, Economics & Public Policy (5 credits)
BISLEP 302 Policy Analysis (5 credits)

B. Skills & Method Courses
BES 301 Science Methods & Practice
BIS 217 Introduction to Debate
BIS 312 Approaches to Social Research
BIS 315 Understanding Statistics
BIS 340 Approaches to Cultural Research
BIS 342 Geographic Information Systems
BIS 343 Geographic Visualization
BIS 352 Mapping Communities
BIS 410 Topics in Qualitative Inquiry
BIS 447 Topics in Quantitative Inquiry
BIS 495 Internship
BIS 496 Community Service Project
BIS 497 Political Internship in State Government
BISSKL 302 Teambuilding (2 credits)
BISSKL 375 Academic Research & Writing Seminar (2 credits)
BISSKL 400 Policy Journal Editorial Board (2 credits)
BUS 402 Managing Work Teams

C. Policy Foundation Courses
BIS 320 Comparative Political Economies
BIS 338 Political Institutions & Processes
BIS 415 Public Policy & Law
BISGST 324 International Political Economy
BISSEB 304 Institutions & Social Change
BISSEB 359 Ethics & Society

D. Policy Problem Courses
BES 331 Estuarine Science and Management
BIS 219 The Politics of Sex Education
BIS 275 Social Problems
BIS 282 Globalization
BIS 284 International Relations
BIS 307 Environmental Justice
BIS 310 Women, Culture and Development (formerly offered under BIS 339)
BIS 327 History of US Labor Institutions
BIS 335 Human Rights in America
BIS 353 Human Rights in Theory & Context
BIS 359 Principles & Controversies of Sustainability
BIS 374 Middle East Politics
BIS 386 Global Environmental Issues
BIS 392 Water & Sustainability
BIS 394 Comparative Economic Development
BIS 403 WA DC Seminar on Human Rights
BIS 406 Urban Planning
BIS 421 Technology Policy
BIS 441 Global Labor Markets
BIS 443 Education Policy & the Economy
BIS 446 Science, Expertise and Public Policy
BIS 458 Energy, Environment, and Society
BIS 459 Conservation & Sustainable Development
BIS 466 Human Rights & Resistance
BIS 468 Human Rights & Sustainability
BISAMS 363 Conflict & Connections in the Americas
BST 200 Introduction to Climate Science
BST 445 Political Economy of Energy

**Media and Communication Studies (BA)**
(Classes in this major are offered primarily during day time hours.)

The Media and Communication Studies (MCS) major combines a rich grounding in media and communication theory and history with hands-on opportunities to engage in media practice and production. The major challenges students to become critical practitioners by developing the intellectual capacities and practical skills needed to communicate through new media formats.

MCS coursework integrates theory and practice through media production workshops, classroom seminars, and community-based projects. The curriculum enables students to hone their skills as media critics and practitioners by drawing connections across diverse social, cultural, and scientific areas of inquiry and professional sectors.
MCS prepares students for graduate study in Communication, Media Studies, and Cultural Studies, among many others fields, and lays the groundwork for future careers in electronic media broadcasting, non-broadcasting audio and video production, advertisement, public relations, or communication education.

There are no formal prerequisites for Media and Communication Studies. Useful preparation for this option includes formal and informal training in new media production. Students will need strong skills in critical and creative thinking, communications, and collaboration.

**Media and Communication Studies (MCS) Requirements:**
- BIS 300 Interdisciplinary Inquiry (5 credits)
- MCS Core Course (5 credits)
- MCS Communication Practice & Media Production Courses (10 credits)
- MCS Tier One Courses (15 credits)
- MCS Tier One, Tier Two OR Communication Practice & Media Production Courses (10 credits)
- Additional IAS Coursework (20 credits)
- BIS 499 Portfolio Capstone (3 credits)
- General Electives (22 credits)

Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).

**TOTAL= 90 credits**

**Media and Communication Studies Option Courses:**

A. **MCS Core Course**
- BISMCS 333 Media and Communication Studies

B. **Tier One Courses**
- BIS 205 Technologies of Expression
- BIS 215 Literature into Film
- BIS 232 Using, Understanding and Visualizing Quantitative Data
- BIS 233 Participatory Media Culture
- BIS 235 Critical Media Literacy
- BIS 236 Introduction to Interactive Media
- BIS 264 Africa on Film
- BIS 313 Issues in Media Studies
- BIS 347 History of American Documentary Films

BIS 462 The Culture of Cold War America
BIS 464 Topics in Advanced Cinema Studies
BIS 467 Post-1945 U.S. Youth Culture: Culture, Theory, and History
BISAMS 365 Popular and Consumer Culture
BISAMS 369 American Culture and Mass Media
BISCLA 318 Performance, Community, Identity and Everyday Life
BISCLA 349 Hollywood Cinema and Genres
BISCLA 360 Literature, Film & Consumer Culture
BISMCS 471 Advanced Topics in Media and Communication Studies
BISMCS 473 Visual Communication
B EDUC 476 New Literacies for Digital Learning

C. **Tier Two Courses**
- BIS 208 Experimenting Through the Arts
- BIS 216 Introduction to Cultural Studies
- BIS 217 Introduction to Debate
- BIS 219 The Politics of Sex Ed
- BIS 222 Travel and Cultural Difference
- BIS 282 Globalization
- BIS 340 Approaches to Cultural Research
- BIS 342 Geographic Information Systems
- BIS 382 The Visual Art of Biology
- BIS 385 Cross-Cultural Oral Traditions
- BIS 437 Narrative Psychology
- BIS 466 Human Rights and Resistance
- BISIA 207 Introduction to Creative Writing
- BISIA 310 Creative Writing: Poetry
- BISIA 311 Creative Writing: Prose
- BISSEB 333 The Individual and Society
- BISTS 307 Science, Technology and Society
- BEDUC 522 Education and the American Dream

D. **Communication Practice and Media Production Courses**
- BIS 204 Introduction to Journalism
- BISIA 350 Photography & Digital Art
- BISIA 401 Literary Journal
- BISIA 450 Image & Imagination
- BISMCS 234 Media and Communication Techniques
- BISMCS 240 Working with Video
- BISMCS 260 Working with Audio
- BISMCS 343 Media Production Workshop
- BISMCS 472 Advanced Media Production Workshop
- BISSKL 400 Policy Journal Editorial
Science, Technology, and Society (BA)
How have the fields of science and technology evolved over time, and what does the future hold? How should societies manage those fields to achieve just and sustainable communities? The Science, Technology and Society (STS) prepares students to address these important questions through an integrated approach to science, technology, and their relationships to culture, history, and society.

STS students work with faculty members trained in disciplines ranging from biology and mathematics to political economy and philosophy. Housed in Interdisciplinary Arts and Sciences, the major enables students to develop their skills in scientific and technological research along with their capacities for critical, creative, and ethical reflection. Students leave the program with the capacity to make informed decisions about the responsible use of science and technology -- as professionals and citizens.

Graduating STS students are prepared for careers with a wide variety of for-profit, not-for-profit, and governmental organizations that analyze, produce, and use scientific and technical knowledge. These careers include planning and administration, public and investor relations, and advocacy and communications, among other areas. STS students also pursue graduate and professional education in such fields as law, education, policy studies, and media and cultural studies.

Prerequisites:
Two quarters of a 100 or 200-level science sequence, which may be two courses from the same sequence or the first course from any two different sequences, as below:

BIS 250 and 251 (How Things Work) are recommended to satisfy this requirement.
Alternatively, students may take BES 180 and 200 (Introductory Biology) or their equivalents; BCUSP 142 and 152 (General Chemistry) or their equivalents; or BCUSP 143 and 144 (General Physics) or their equivalents.
Other science courses may be accepted if they have a laboratory component and are designed for students expecting to major in the science field in which the sequence is offered.

BCUSP 123 (Functions, Models, and Quantitative Reasoning) or Pre-Calculus.

Science, Technology and Society (STS) Requirements:
BIS 300 Interdisciplinary Inquiry (5 credits)
BISSTS 307 (5 credits)
BIS 315 (5 credits)
BES 301 (5 credits)
BIS 312 or BIS 340 (5 credits)
Social and Cultural Studies of Science (SCSS) Courses (15 credits)
Science Practice Courses (10 credits)
BIS 499 Portfolio Capstone (3 credits)
Additional IAS Coursework (15 credits)
General Electives (22 credits)

Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).

TOTAL= 90 credits

Science, Technology and Society (STS) Courses:
A. STS Core Course
BISSTS 307 Science, Technology and Society

B. STS Method Courses
BES 301 Science Methods and Practice
BIS 315 Understanding Statistics
BIS 312 Approaches to Social Research
BIS 340 Approaches to Cultural Research

C. Social and Cultural Studies of Science Courses
Courses which apply the theories and/or methods of one or more disciplines in the social sciences and humanities to the study of science, technology, engineering, mathematics, or medicine, or which explore how artistic practice can be informed by scientific concepts of technological forms. Such courses include:

BIS 218 The Power of Maps
BIS 302 Issues in Mathematics Across Cultures
BIS 307 Environmental Justice
BIS 329 Topics in Mathematics Across the Curriculum
BIS 345 American Environmental Thought
BIS 346 Topics in Environmental Policy
BIS 350 The Concept of Number
BIS 355 History of Science and Technology
BIS 356 Ethics and the Environment
BIS 380 Bioethics
BIS 382 The Visual Art of Biology
BIS 384 Health, Medicine and Society
BIS 388 The Philosophy & Science of Quantum Mechanics
BIS 391 Environmental History of the Pacific Northwest Bioregion
BIS 411 Biotechnology and Society
BIS 421 Technology Policy
BIS 446 Science, Expertise and Public Policy
BIS 458 Energy, the Environment and Society
BIS 459 Conservation and Sustainable Development

D. Science Practice
Courses which give students the opportunity to experience the processes through which scientific knowledge and technology innovations are made by involving them in science, engineering, mathematics, or medical research, or by asking them to apply scientific theory or methods to understanding and solving real-world problems. Such courses include:
BES 302 Environmental Problem Solving
BES 303 Environmental Monitoring Practicum
BES 311 Environmental Chemistry
BES 312 Ecology
BES 315 Environmental Chemistry Laboratory
BES 316 Ecological Methods
BES 331 Estuarine Science and Management
BES 341 Natural Hazards and Human Disasters
BES 362 Introduction to Restoration Ecology
BES 415 Advanced Environmental Measurements Lab
BES 439 Computer Modeling and Visualization in Environmental Science
BES 462 Restoration Ecology Capstone: Introduction
BES 463 Restoration Ecology Capstone: Proposal and Plan
BES 464 Restoration Ecology Capstone: Field Site Restoration
BES 485 Conservation Biology
BES 486 Watershed Ecology and Management
BES 487 Field Laboratory in Wildland Soils and Plants
BES 489 Pacific Northwest Ecosystems
BIS 232 Introduction to Data Visualization
BIS 240 Introduction to Sustainable Practices

BIS 241 Nature in the Northwest
BIS 242 Introduction to Environmental Issues
BIS 244 Wetlands Discovery
BIS 250 How Things Work: Motion and Mechanics
BIS 251 How Things Work: Electricity and Invention
BIS 306 Marine Diversity and Conservation
BIS 342 Geographic Information System
BIS 343 Geographic Visualization
BIS 358 Issues in Environmental Science
BIS 381 The History of Life
BIS 386 Global Environmental Issues
BIS 392 Water and Sustainability
BIS 395 Environmental Change in Washington State
BIS 442 Advanced GIS Analysis and Applications
BIS 447 Topics in Quantitative Inquiry
BIS 459 Conservation and Sustainable Development
BIS 482 Problems in Interdisciplinary Science
BISSTS 231 Genes, Genomes and Heredity
BISSTS 232 Embryos, Genes and Reproductive Technology
B BIO 231 Genes, Genomes & Heredity
B BIO 232 Embryos, Genes and Reproductive Technology
B CLIM 320 Impacts of Climate Change
BST 200 Introduction to Climate Sciences
BST 446 Sustainable Energy

Society, Ethics, and Human Behavior (BA)
How do social institutions and practices shape human experience? How do individuals contribute to social stability and change?

SEB addresses these questions through a critical examination of the perspectives and tools used to understand human behavior, social institutions, and social policies. SEB combines an exploration of the ethical dimensions of individual and social action with analyses across multiple disciplines including sociology, psychology, media and cultural studies, anthropology, ethics, and political philosophy. The SEB faculty is committed to providing students with opportunities to engage in empirical research and project-based learning experiences in and beyond the classroom.

Graduating SEB students are ideally prepared to pursue professional careers or advanced study in a wide variety of fields, such as social work, education, public policy, law, media and cultural studies, and
human resources. SEB also educates students to assume more active leadership roles within their communities, families, and workplaces.

While there are no official requirements, students choosing this major will find it helpful to have completed college coursework in psychology, sociology, statistics, and philosophy.

Society, Ethics and Human Behavior (SEB) Requirements:

BIS 300 Interdisciplinary Inquiry (5 credits)
SEB Core (5 credits)
BIS 315, BIS 312 or BIS 410 (5 credits)
SEB Courses (30 credits)
Portfolio Capstone (3 credits)
Additional IAS Coursework (20 credits)
General Electives (22 credits)

Completion of the IPR requirement and a minimum of 25 credits in each Area of Knowledge (with 10 credits in each Area completed at UW Bothell).

TOTAL= 90 credits

Society, Ethics and Human Behavior (SEB) Courses:
Key: **SEB listing dependent on topic.

A. SEB Core Courses
BISSEB 304 Institutions and Social Change
BISSEB 331 The Family in U.S. Society
BISSEB 333 The Individual and Society
BISSEB 359 Ethics and Society

B. Methods and Modes of Inquiry
BIS 312 Approaches to Social Research
BIS 315 Statistics
BIS 340 Approaches to Cultural Research
BIS 352 Mapping Communities
BIS 410 Topics in Qualitative Inquiry
BIS 447 **Topics in Qualitative Inquiry

C. Individual Behavior
BIS 202 Critical Reasoning
BIS 220 Developmental Psychology
BIS 225 Applied Social Psychology
BIS 270 Abnormal Psychology

BIS 271 History of Psychology
BIS 337 Risk and Resilience
BIS 348 Cultural Psychology
BIS 349 Personality Psychology
BIS 422 Clinical Psychology
BIS 434 Psychology and the Visual Arts
BIS 437 Narrative Psychology
BIS 438 Prevention and Promotion
BIS 449 **Advanced Topics in Psychology
BIS 457 Thinking and Decision Making
BIS 496 Community Service Project
BISC 343 Community Psychology
BISC 489 Projects in Community Psychology

D. Institutions
BIS 226 Foundations of U.S. Social Service
BIS 282 Globalization
BIS 327 History of U.S. Labor Institutions
BIS 330 Democratic Capitalism in the United States
BIS 338 Political Institutions and Processes
BIS 433 Gender, Work and Family
BIS 436 Comparative Family Systems
BIS 441 Global Labor Markets
BISLEP 301 Law, Economics & Public Policy

E. Social Policy and Social Justice
BIS 218 Power of Maps
BIS 219 The Politics of Sex Education
BIS 224 Introduction to Feminist Studies
BIS 240 Sustainable Practices
BIS 243 Introduction to Environmental Issues
BIS 275 Social Problems
BIS 307 Environmental Justice
BIS 318 Education and Society
BIS 325 Disability and Human Rights
BIS 335 Human Rights in America
BIS 353 Human Rights in Theory and Practice
BIS 394 Comparative Economic Development
BIS 403 Washington DC Seminar on Human Rights
BIS 405 Environmental Education
BIS 406 Urban Planning and Geography
BIS 415 Public Policy and the Law
BIS 419 Urban Politics and Policy
BIS 420 Colonizing History in Sub-Saharan Africa
BIS 426 Comparative Urban Politics
BIS 443 Educational Policy and the American Economy
BIS 445 Meanings and Realities of Inequality
BIS 448 Social Policy
BIS 458 Energy, the Environment and Society
BIS 466 Human Rights and Resistance
BIS 468 Human Rights and Sustainable Development
BIS 497 Political Internship in State Government (5 credits max)
BISLEP 302 Policy Analysis
BISSTS 307 Science, Technology, and Society
BEDUC 220 Education & Society (3 credits)
BEDUC 475 Global Perspectives on Diversity and Citizenship Education
BEDUC 493 Environmental Education

**F. Culture and Society**
BIS 205 Technologies of Expression
BIS 216 Introduction to Cultural Studies
BIS 217 Introduction to Debate
BIS 221 Gender and Sexuality
BIS 222 Travel and Cultural Difference
BIS 223 Introduction to Narrative Ethnography
BIS 233 Participatory Media Culture
BIS 256 Introduction to African American Studies
BIS 257 Introduction to Asian American Studies
BIS 258 Introduction to Latina/Latino Studies
BIS 265 Multicultural America
BIS 293 **Special Topics
BIS 310 Women, Culture & Development
BIS 317 Language, Society and Cultural Knowledge
BIS 336 Native American Cultures: the Northwest Coast
BIS 341 **Topics in the Study of Culture
BIS 369 Women Across Cultures
BIS 374 Middle East Politics
BIS 384 Health, Medicine & Society
BIS 393 **Special Topics
BIS 418 Masculinity, Homosociality and Queer Theory in America
BIS 431 Issues in Sexual Politics and Cultures
BIS 440 **Topics in Everyday Social and Cultural Life
BIS 463 U.S. Women’s History
BIS 465 Performance, History, and Memory
BIS 470 Art, Politics and Social Change
BIS 493 **Special Topics
BISAMS 305 Power, Dissent, and American Culture
BISAMS 364 Public Memory and Dissent in American Culture
BISAMS 365 Exploring American Culture: Popular and Consumer Culture
BISAMS 367 Exploring American Culture: Race, Ethnicity and Immigration
BISAMS 368 Sex, Love, Romance
BISAMS 369 American Culture and Mass Media
BISCLA 318 Performance, Identity, Community and Everyday Life
BISCLA 360 Literature, Film and Consumer Culture
BISMCS 234 **Media and Communication Techniques
BISMCS 333 Media and Communication Studies
BISMCS 343 **Media Production Workshop
BISMCS 471 **Advanced Topics in Media and Communication
BISMCS 472 **Advanced Media Production Workshop
BEDUC 456 Adolescents in School and Society
BEDUC 461 Education and Gender Inequality
BEDUC 475 Global Perspectives on diversity and Citizenship Education (3 credits)

**G. Ethics, Philosophy and Social Theory**
BIS 260 Introduction to World Religions
BIS 345 American Environmental Thought
BIS 356 Ethics and the Environment
BIS 357 Native American Religious and Philosophical Thought
BIS 359 Principles & Controversies of Sustainability
BIS 380 Bioethics
BIS 411 Biotechnology and Society
BIS 430 Social Theory and Practice
BIS 435 Interactive Learning Theory
BISGST 362 Contemporary Political Ideas and Ideologies

**H. Area Studies**
BIS 480 **Study Abroad

**Minor Requirements**

**Minor in Creative Writing**
The Minor in Creative Writing enables students to explore and engage diverse creative writing practices and to develop artistic, critical and conceptual competence in an interdisciplinary context.

Students pursuing the Creative Writing minor must complete 25 credits in the following areas:

**IA Core (5 credits)**
- BISIA 319 Interdisciplinary Arts
20 Credits of BISIA courses in the area of Creative Writing Coursework

Students are required to take at least 15 credits at the 300 or 400 level
- BISIA 207 Introduction to Creative Writing: Words, Stories, Dialogues
- BISIA 310 Creative Writing: Poetry
- BISIA 311 Creative Writing: Prose
- BISIA 410: Advanced Creative Writing Workshop
- Selected Interdisciplinary Techniques & Workshop Courses Depending on Topic

No more than 10 credits from the Creative Writing Minor can be applied to a student’s major requirements.

Minor in Diversity Studies

The Minor in Diversity Studies is an option for students who want to explore key concepts related to power, identity, and difference, and to understand how historical and structural relations of power and difference shape social relations.

Co-administered between the School of Interdisciplinary Arts and Science and the School of Educational Studies at UW Bothell, the minor integrates theoretical and practical approaches to the study of diversity. It is designed to enable students to transform the worlds they live in now and will move into after graduation.

Students pursuing the Minor in Diversity Studies must complete 25 credits in the following areas:
- 5 credits: BIS/BEDUC 255 Critical Diversity Studies
- 5 credits: BIS/BEDUC 328 Diversity, Leadership, and Engagement*
- 5 credits: Course satisfying the University of Washington’s Diversity (DIV) Requirement
- 5 credits: Upper Division Diversity Studies Minor Elective (see below)
- 5 credits: Diversity Studies Final Project

Note: Classes in this minor are offered primarily during the day-time hours.

*Students receiving fewer than 5 credits in BIS/BEDUC 328 may take additional Upper Division Diversity Elective courses to reach the minimum 25 credits required for the minor.

Upper Division (300-400 level) Diversity Studies Minor Electives
- B NURS 407 Cultural and Social Issues in Healthcare
- BEDUC 330 Race, Culture, and Identity in the Classroom
- BECUC 461 Educational Implications Gender Inequality
- BEDUC 475 Global Perspectives on Diversity and Citizenship Education (3 credits)
- BEDUC 522 Education and the American Dream (3 credits)
- BIS 310 Women, Culture, and Development
- BIS 325 Disability and Human Rights
- BIS 335 Human Rights in America
- BIS 379 American Ethnic Literatures
- BIS 433 Gender, Work, and Family
- BIS 445 Meanings and Realities of Inequality
- BIS 463 U.S. Women’s History
- BISAMS 367 Race, Ethnicity, and Immigration
- BISAMS 368 Sex, Love, Romance

No more than 10 credits from the Diversity Studies Minor can be applied to a student’s major requirements.

Minor in Ecological Restoration

The minor in ecological restoration seeks to prepare students to address the complex relationships of human communities and ecological sustainability. The minor is a tri-campus initiative (UW Bothell, UW Seattle, and UW Tacoma). Students may, but are not required to, take courses from more than one campus in order to earn the minor.

Students pursuing the Ecological Restoration minor must complete 25 credits in the following areas:
1. Introductory course in restoration ecology (5 credits)
2. UW-REN capstone course sequence in ecological restoration (10 credits)
3. Restoration related courses (10 credits)

Introduction to Restoration Ecology (5 credits)
This 5-credit course provides a foundation in the principles and history of ecological restoration. It covers a broad range of topics from how restoration
is done, its scientific bases, regulations, social context, etc.

**UW-REN Capstone in Ecological Restoration (10 credits)**
The restoration ecology capstone is a 10-credit three-quarter sequence (fall – winter – spring) taught by faculty from all UW campuses. Students from across departments at all three campuses are assigned to interdisciplinary teams of students from diverse academic fields. These teams work with a community partner to undertake ecological restoration projects in the surrounding area that are important, but for which financial or technical resources are limited. Students learn how to work in a multidisciplinary team environment while accomplishing a restoration project that connects the academic principles they have learned to hands-on practice with a real-life client. This course sequence is offered at all three UW campuses each academic year.

**Restoration Related Courses (10 Credits)**
This requirement allows students to develop more specific expertise in ecological restoration, often within their major field of study. Courses are approved that have substantial explicit restoration content or those (above introductory-level courses) that cover principles or provide applications valuable in undertaking restoration. Course approval is done by the UW-REN faculty academic steering committee. Special topics courses offered occasionally are approved on a case-by-case basis by the faculty directors.

NOTES: Students must complete at least 15 credits of the minor at their home campus. Also, no more than 10 credits from the Ecological Restoration Minor can be applied to a student’s major requirements. Students pursuing the BS in Science are not eligible to complete the Ecological Restoration Minor.

For a list of courses which satisfy the requirements listed above, please see our website: http://www.uwb.edu/ias/minors/erminor.

**Minor in Human Rights**
The Human Rights minor is an option for students who are interested in the rapidly emerging field of human rights. The minor is a tri-campus initiative (UW Bothell, UW Seattle and UW Tacoma). Students may, but are not required to, take courses from more than one campus in order to earn the minor.

Students must complete the following requirements for a minor in Human Rights (25 credits):
- Human Rights Core (Tier One, 10 credits)
- Human Rights Broad Context (Tier Two, 5 credits)
- Human Rights Core or Broad Context (Tier One or Tier Two, 10 credits)

- **Human Rights Core (Tier One 10 Credits)**
  Courses concerned with the study of “human rights” (i.e. as defined in the Universal Declaration of Human Rights) as a core concept.

- **Human Rights Broad Context (Tier Two, 5 credits)**
  Courses concerned with human rights in a broad context, e.g. poverty, race/ethnicity, gender.

A complete list of Human Rights Core (Tier One) and Human Rights Broad Context (Tier Two) courses offered at UW Bothell can be found on our website: http://www.uwb.edu/ias/minors/hrminor.

In addition to the courses listed above, students must complete the equivalent of 3 credits of a practical experience in a human rights-related area. This requirement may be met through an internship, practicum, yearlong participation in the student human rights club, Human Equality and Rights Everywhere (HERE), international study abroad program, the Washington D.C. Seminar on Human Rights or a demonstrated equivalent.

**Minor in Policy Studies**
The Policy Studies minor is designed to provide students with the analytical foundations they will need to understand policy formation, implementation, and evaluation.

Students must complete the following requirements for a minor in Policy Studies (30 credits):

- **Common Core (20 credits)**
  Microeconomics (BCUSP 200 or equivalent)
  BISLEP 302 Policy Analysis OR BISGST 324 International Political Economy
BISLEP 301 Law, Economics and Public Policy OR BIS 338w Political Institutions and Processes
Statistics (BBUS 215, BIS 315, STAT 220, 311 or equivalent)

**Methods (5 credits)**
BIS 312 Approaches to Social Research OR BES 301 Science Methods and Practice

**Elective (5 credits)**
Choose from the following list of 400-level policy-oriented courses:
- BIS 403 Washington DC Seminar on Human Rights
- BIS 406 Urban Planning
- BIS 414 Topics in Human Rights
- BIS 415 Public Policy and law
- BIS 419 Urban Politics and Policy
- BIS 421 Technology Policy
- BIS 443 Educational Policy and the American Economy
- BIS 458 Energy, Environment and Society
- BIS 466 Human Rights and Resistance
- BIS 468 Human Rights and Sustainable Development
- BIS 497 Political Internship in State Government
- BIS 491 Topics in Policy Studies
- BISLEP 497 Topics in Law, Economics and Public Policy

Other appropriate policy area courses by approval including BPOLST 492 (Topics in Policy Research).

**NOTE:** Students pursuing Interdisciplinary Studies: Law, Economics and Public Policy are not eligible to complete the minor in Policy Studies.

**Minor in Visual and Media Arts**
The Minor in Visual and Media Arts enables students to explore and engage diverse visual and media arts practices and to develop artistic, critical and conceptual competence in an interdisciplinary context.

Students pursuing the Visual and Media Arts minor must complete 25 credits in the following areas:

**IA Core (5 credits)**
- BISIA 319 Interdisciplinary Arts

**20 credits of BISIA courses in the area of Visual and Media Arts Coursework**
Students are required to take at least 15 credits at the 300 or 400 level
- BISIA 240 Visual and Media Arts Techniques
- BISIA 250 Photography as Art
- BISIA 340 Visual and Media Arts Workshop
- BISIA 350 Photography and Digital Art
- BISIA 440 Advanced Visual and Media Arts Workshop
- BISIA 450 Image and Imagination
- Selected Interdisciplinary Techniques & Workshop Courses Depending on Topic

No more than 10 credits from the Creative Writing Minor can be applied to a student’s major requirements.

**School of Nursing and Health Studies**

**Bachelor of Science in Nursing**
The University of Washington Bothell Bachelor of Science in Nursing (BSN) degree is accredited as part of the University of Washington School of Nursing and awards a University of Washington degree. The degree program is combined with the UW School of Nursing’s acclaimed professional program with the University of Washington Bothell’s well-rounded arts and sciences curriculum, building a foundation of knowledge in nursing science, humanities and social sciences, and related professional course work. Critical thinking, decision making, and oral and written communication skills are emphasized.

The School of Nursing and Health Studies offers two educational pathways to earn a Bachelor of Science in Nursing from the University of Washington Bothell; The First-Year Entry RN-to-BSN and the RN-to-BSN.

**First Year Entry RN-to-BSN Degree Program**
*Intended for first year students with no college credits post high school.*

The First Year Entry RN-to-BSN is a professional integrated degree program that provides direct entry for first year students into the nursing major. It is
designed for high school graduates and those holding a high school diploma with no post high school college credits (senior summer quarter credits after graduation included). The degree program combines associate and baccalaureate degree education, which allows students the opportunity to pursue a Registered Nursing license as part of the BSN rather than after the completion of the degree.

Students study at two college campuses graduating from the degree program with an RN License, an Associate in Nursing Degree from EvCC and a Bachelor of Science Degree from UW Bothell. At UW Bothell, students complete the university general education and nursing prerequisites. Students then commence their professional nursing courses and complete clinicals in the Everett Community College Nursing Program in preparation to take the Washington State Registered Nursing Licensing Exam. Upon successful passage of the state RN licensing exam, students complete the final year of academic nursing studies back at UW Bothell.

Admission Requirements:
- Completion of university first year admissions requirements
  http://www.uwb.edu/admissions/firstyear
- Completion of the math prerequisite: demonstrated proficiency in intermediate algebra through AP, Running Start, College in the High School, or placement
  http://www.uwb.edu/nhs/nhsadmissions/fyebn/mathprerequisite

First Year Entry RN-to-BSN only admits domestic students. This pathway is not open to international or external/internal transfer applicants. These students should apply to the RN-to-BSN degree completing program.

Degree Program Requirements
Academic
- Complete required coursework
  http://www.uwb.edu/nhs/nhsdegrees/fyebn/curriculum
- Maintain a cumulative GPA of 2.85 or higher in all coursework with no less than a 2.0 in any given course.
- Achieve a cumulative GPA of 2.85 or higher in the four Biology courses in the program.
- Achieve a GPA of 3.0 or higher in each of the two required English Composition courses.
- Achieve a minimum cumulative GPA of 3.0 in the Associate Degree in Nursing Program of Everett Community College.
- Complete the UWB RN-to-BSN coursework and requirements senior year.

Testing
- Complete the Teaching of Essential Academic Skills test (TEAS), reaching “Proficiency” in each of the four sections (score required for Proficiency is determined at the national level) prior to the start of the fifth quarter at UW Bothell. More information about this test is available at https://www.atitesting.com/Solutions/PreNursingSchool/TEAS.aspx
- Become a licensed Registered Nurse in Washington State by passing the Washington State NCLEX RN Exam.

Professional Program Behavior
- Pass required state and national background checks and be compliant with immunizations as outlined in the North Puget Sound Clinical Consortium, Clinical Passport
- Meet the nursing essential behaviors of UW Bothell and the EVCC Nursing Program.

Program Credit Structure
Summary of Credits
Lower Division Nursing Prerequisites and General Education Courses: 77
Transfer Credits: 38 *
NCLEX-RN Exam Credits – 45*
Upper-Division Nursing Courses - 30
Upper Division Non-Nursing UWB Electives - 15
Total – 205
*Correspondence credits earned by successfully passing the RN Licensing Exam
*RN coursework from Community College Nursing Program

UW Bothell Graduation Requirements
180 or more total credits
90 credits must be upper division (300-400 level)
Overall grade-point average of 2.0 or higher
Completion of all admission and degree program requirements as outlined above:

RN-to-BSN Degree Program
*Intended for students holding an RN, and an Associate Degree in Nursing or Nursing Diploma from a regionally accredited institution.*

The RN-to-BSN degree completion program values the professional experience of Registered Nurses, allows for students to apply their learning to their professional practice, allows students to explore their own interests, and prepares students for graduate level study.

The School of Nursing and Health Studies at UW Bothell is committed to providing access to education through offering flexible scheduling options. It is based on an understanding that the student is a practicing nurse who must balance professional and personal responsibilities with educational pursuits. The UW Bothell School of Nursing and Health Studies offers RN-to-BSN students:
- Part-time and full-time study options
- Nursing classes held one day per week
- Summer, Autumn, or Winter Admission
- Classes at our Bothell location, as well as options for programs in Everett and Seattle.

Admission Requirements
- Associate degree in Nursing or diploma in nursing
- Proof of current licensure for practice as a Registered Nurse in Washington State
- A minimum of 80 quarter credits
- Two years of a single foreign language in high school or two quarters of a single foreign language in college. The foreign language requirement will also be considered satisfied for applicants who completed their education through the seventh grade in schools where English was not the language of instruction.
- Three years of high school math including completion of Intermediate Algebra or Intermediate Algebra in college (the University of Washington does not grant credit for Intermediate Algebra, but successful completion of a course at or above this level is required of all students admitted). See http://www.uwb.edu/admissions/transfer/guide/minadmreq for more details
- Fulfillment of the English Proficiency Requirement: This applies to international and domestic students who completed most of primary and secondary education outside the USA. See http://www.uwb.edu/admission/engprof_for more details.
  - English Composition: 5 credits
  - Visual, Literary, and Performing Arts: 15 credits
  - Individuals & Society 15: credits
  - Statistics 5 credits
  - Microbiology: 3 to 5 credits
  - Anatomy & Physiology: 10 to 12 credits (may be taken by Excelsior Proficiency Exam courses)
  - A grade of 2.0 or higher is required in each School of Nursing and Health Studies prerequisite. Applicants must show evidence of good academic standing (an overall transfer grade-point average of 2.0 or higher) to be considered for admission.

Program Credit Structure
*Summary of Credits*
- Transfer Credit - 90
- NCLEX-RN Exam Completion Credits - 45
- Upper-Division Nursing Courses - 30
- Upper Division Non-Nursing UWB Electives - 15
- Total – 180

Graduation Requirements
- 180 or more total credits
- 90 credits must be upper division (300-400 level)
- Completion of last 45 credits at UWB
- Overall grade-point average of 2.0 or higher
Completion of all admission and program requirements as outlined above.

**Bachelor of Arts in Health Studies**

The Health Studies major is a liberal arts degree with an interdisciplinary focus in science, humanities, and social sciences. Health Studies will focus on critical issues in population health with particular emphasis placed on principles of ethics and social justice. The student will develop critical thinking and encourage knowledge analysis and synthesis while building technical and analytical skills to address challenges in protecting the health of communities from local to global.

The Health Studies program offers:

- A combination of hands-on learning, community engagement, and real-time, problem-based learning as ways to explore the current challenges, debates, and interventions in population health
- An opportunity for students to explore individual interests through four different concentration areas:
  - A. Health and Life Sciences
  - B. Community Health Intervention and Practice
  - C. Health and Society
  - D. Health Policy, Leadership, and Ethics
- Preparation for an entry-level position in the public health field and/or graduate education

**Admission Requirements**

Both current UWB students and prospective students must meet the following:

- A minimum of 30 quarter credits including:
  - Two college composition courses (10 credits) with a recommended minimum grade of 3.0 in each course
  - A minimum of 10 credits in each of the Areas of Knowledge (VLPA, I&S, NW)
  - 5 credits of Statistics is preferred prior to admission as it is a prerequisite for a required core course offered early in the program.

Prospective UW Bothell Students must also fulfill:

- All university admission requirements for transfer or international applicants.
  - Transfer: www.uwb.edu/admissions/transfer/admission-requirements-tr
  - International: http://www.uwb.edu/admissions/international/intladm/inttransadv
- English Proficiency Requirement: All applicants for whom English is a non-native language must provide proof of English proficiency. This includes international students and domestic students who completed most of primary and secondary education outside the USA. See http://www.uwb.edu/admissions/engprof for more details.

A grade of 2.0 or higher is required in each Health Studies prerequisite, and applicants must show evidence of good academic standing (an overall transfer grade-point average of 2.0 or higher) to be considered for admission.

**Program Structure**

**Summary of Credits**

Health Studies Core Courses – 27 credits
Concentration Area Courses – 40 credits
Statistics – 5 credits
Elective Courses Across UW Bothell – 20 credits
Additional UW Bothell and/or Transfer credits (including admissions requirements) – 88 credits
Total – 180 credits

**Graduation Requirements**

English Composition – 5 credits (a grade of 2.0 or higher is required)
Writing Across the Curriculum – 10 credits
Quantitative and Symbolic Reasoning – 5 credits
Visual, Literary, and Performing Arts – 5 credits
Individuals and Societies – 15 credits
The Natural World – 15 credits
Completion of all admission and program requirements, as outlined above
180 or more total credits
Overall grade-point average of 2.0 or higher

The Bachelor of Arts in Interactive Media Design
(Jointly offered with the School of Science, Technology, Engineering, and Mathematics)

Interactive Media Design offers students an expansive understanding of the processes and methods involved in designing, creating, and evaluating technology-based media applications. With its interdisciplinary approach to interactive media design and emphasis on the studio experience, IMD enables students to develop creative solutions to complex problems through cutting-edge approaches to design and technology. Graduates are uniquely qualified to provide leadership across employment sectors concerned with interaction design in education, engineering, art, science, gaming, social media, and other forms of digital interactivity.

Course Information
The mission and intent of the IMD program is to seek to provide a diverse range of students with theory, practice and knowledge necessary to succeed and thrive in a highly competitive global, digital, service driven economy. The program stresses inquiry, teamwork, collaboration, communication, creativity, adaptability, entrepreneurialism and a dedication to lifelong learning. This degree accomplishes its mission through five curricular components that serve very specific functions in the overall design of the curriculum: 1) IMD program-specific prerequisites; 2) IMD program core courses; 3) the junior-level Studio Elements sequence; 4) the senior-level Integrative Studio; and 5) the student-select Specialty Area requirement.

1) IMD Prerequisites: 10 credits
BIS 236: Introduction to Interactive Media*
CSS 233: Media Technologies*
*May be waived for ATA/AAS/Media transfer students.

Recommended courses prior to admission:

Statistics/Quantitative Methods (choose one of the following courses)
- BIS 232: Intro to Data Visualization
- BIS 315: Understanding Statistics
- B BUS215: Intro to Business Statistics
- B MATH215 /BHS215: Statistics for Health Sciences
- STMATH 341: Intro to Statistical Inference
- B WRIT 135: Research Writing

Students who have completed the Statistics/Quantitative Methods requirement prior to application to the major will be given priority. Students who have not completed that requirement prior to admission will need to take the course within their first two quarters in the major.

2) IMD Program Core Courses: 20 credits
The IMD Program Core – 300-level (2 courses) and 400-level (2 course) – provide fundamental concepts critical to understanding and preparing for the intensive 3rd and 4th year studio experiences.

- B IMD 330: Quantitative Methods in Interactive Media
- B IMD 350: Designing Media Experiences - MX
- B IMD 440: Systems of Digital Media Architecture
- B IMD 460: Media Production Techniques

3) The Junior-Level Studio Elements: 25 credits
Third year students in the IMD degree are required to take three IMD-specific content courses. These studio courses will prepare students for a series of “content modules” as well as apply them to a specific sequence of design/development processes. Students will also use contemporary software tools and techniques during this process.

- B IMD 351 Studio Elements I: Introduction (5 credits)
- B IMD352/362: Studio Element II: Essentials (10)
- B IMD 353/363 Studio Elements III: Advanced (10)

4) The Senior-Level Integrative Studio: 30 credits
The Integrative Studio sequence provides students the opportunity to complete a substantial project that is linked to the student's interests. These courses require students to complete a series of advanced course work and the Advanced Studio production components (IMD 49X). The Advanced Studio
production components will be evaluated based on product development, integration of specialty area knowledge into the student's final portfolio, documentation & evaluation of product impact and criteria related to the synthesis of content modules into the integrated final project. Students will be required to maintain a portfolio of all work that will be evaluated as part of the IMD 49X assessments.

BIMD 481/491: Integrative Studio I: Design (10)
BIMD 482/492: Integrative Studio II: Production (10)
BIMD 483/493: Integrative Studio III: Portfolio (10)

5) The Student-Select Specialty Area - Non-IMD courses: 15 credits
Specialty areas are groups of courses offered outside of the IMD degree that may be linked to a form of media that the student wishes to study in more depth. Students will be required to take a minimum of three courses in a selected area and must seek pre-approval from the IMD Academic Oversight Committee (AOC) prior to taking the specialty area courses. Some examples include the following: interactive narrative, art, 3-D graphics, data visualization, geographic information systems, cultural studies, and film. A specialty area must include at least two 200 level courses or one 300-level (or above) course offered at UW or other combination may be approved by the AOC upon review.

This will provide the students with the opportunity to study a companion knowledge domain that will be the focus of their fourth year Integrative Studio project. Again, specialty area courses can only be completed and satisfied after being admitted into the IMD degree AND with an approved Specialty Area Proposal Form. See the IMD advisor for more information.

Graduation Requirements
Total of 180 credits
Completion of all degree requirements (90 credits)
15 credits of Visual, Literary, and Performing Arts
15 credits of Individuals and Societies
15 credits of Natural World
5 credits of Diversity course (only apply to students entering to UW in Autumn of 2014 or later)

Completion of 10 credits of Writing Requirement (W-courses or English composition courses)
Completion of foreign language requirement (2 years from high school or 102 level at college)
Minimum grade of 2.0 in each IMD prerequisites
All 90 credits in IMD requirements must be graded (no S/NS)
Minimum 2.0 cumulative GPA at UW
Meet residency requirement – 45 out of the last 60 credits must be taken at UWB
Meet cross campus enrollment policy – after earning 15 credits at UWB, students are eligible to take up to 15 credits a year at another UW campus.
Complete Graduation Application 2/3 quarter prior to graduation with an IMD
VII. Master Degrees

School of Business

Master of Business Administration (MBA)
The University of Washington Bothell offers two MBA programs, the Technology MBA (TMBA) Program at Bothell and the Leadership MBA (LMBA) Program at Bellevue. Both programs are AACSB-accredited, evening degree programs developed in collaboration with representatives from leading software, telecommunications, biotechnology, and high-tech manufacturing companies.

The MBA programs offered by UW Bothell provide an exceptional and rigorous learning environment and are taught by nationally-recognized graduate faculty recruited from premier institutions in the U.S. The programs are built on a core of traditional business courses such as strategy, finance, economics, accounting, statistics, marketing, operations, project management, and organizational behavior.

The Technology MBA Program at Bothell enables students in technology-centered enterprises to develop their intrapreneurship and entrepreneurship skills and prepares them to create innovative high-growth businesses within established organizations or start-up businesses. The Leadership MBA Program at Bellevue enables aspiring leaders from a wide range of industries to develop the analysis, problem-solving, communication, and team work skills necessary to maximize their leadership potential. A hallmark of the UWB MBA programs is interaction with successful managers who share their winning strategies and practicum where students work with mentors and leadership coaches in integrating the theory and practice of business.

Students are challenged and supported as they strive to develop their leadership and management expertise. With the right degree of commitment, program participants can look forward to graduating with the skills, knowledge, and confidence needed to effectively lead in the global marketplace.

Admission Requirements
The MBA Programs at UW Bothell invite applications from professionals who have an undergraduate degree in any field. Prior courses in business are not required.

MBA applicants should be highly motivated and have a personal record of achievement and responsibility. Duration and type of professional work experience figure prominently in the evaluation of applicants. To ensure a dynamic and productive learning environment, participants should also be adept at managing their time, taking responsibility for their own learning, challenging themselves, and combining their business experience and coursework in meaningful ways.

In assessing your application to the MBA program of your choice, the admission committee will consider:
1. Previous work experience including type, duration, level of responsibility, career progression, and recent community service;
2. Recent GMAT (Graduate Management Admission Test) or GRE (Graduate Record Examination) score;
3. Previous academic performance;
4. Response to two essay questions;
5. Recommendations from two professional and/or academic references; and
6. TOEFL (or IELTS) score, less than two years old, for applicants whose undergraduate degree is not from an accredited US institution or whose native language is not English.

To learn more details about the UWB MBA admissions requirements and deadlines, please visit our website: www.uwb.edu/mba.

Technology MBA Curriculum for Class of 2016 (entering Autumn 2014)
First Year Courses

BUS 501: Leadership & Ethical Decision Making (Retreat) (4cr.)
BUS 512: Strategic Management (4cr.)
BUS 502: Statistics for Business (4cr.)
BUS 503: Financial Reporting & Analysis (4cr.)
BUS 504: Microeconomics for Business (4cr.)
BUS 505: Financial Management (4cr.)
BUS 506: Marketing Management (4cr.)

Sub-total (first academic year credits)...28 cr.
Second Year Courses
BUS 531: Leadership & Social Responsibility-Retreat (4cr.)
BUS 509: Operations and Supply Chain Management (4cr.)
BUS 523: New Product Marketing (4cr.)
BUS 510: Managing Organizational Effectiveness (4cr.)
BUS 525: Technology & Innovation Management (4cr.)
BUS 507: Global Business (4cr.)

Sub-total (second academic year credits).....24 cr.

Elective credits (taken during the first or second summer, second Winter, and/or second Spring Quarters......20 cr.

Total credits required for the degree.....72 cr.

LMBA elective offerings – indicative list:
Global Study Tour (pre-spring)
Enterprise IT Management (pre-spring)
Enterpreneurship Practicum
Entrepreneurial Marketing
Entrepreneurial Finance
Business Communications
Negotiations
Managerial Accounting
Consulting

Leadership MBA Curriculum for Class of 2016 (entering Autumn 2014)
First Year Courses
BUS 501: Leadership & Ethical Decision Making (Retreat) (4cr.)
BUS 512: Strategic Management (4cr.)
BUS 502: Statistics for Business (4cr.)
BUS 503: Financial Reporting & Analysis (4cr.)
BUS 504: Microeconomics for Business (4cr.)
BUS 505: Financial Management (4cr.)
BUS 506: Marketing Management (4cr.)

Sub-total (first academic year credits).....28 cr.

BUS 531: Leadership & Social Responsibility-Retreat (4cr.)
BUS 509: Operations and Supply Chain Management (4cr.)
BUS 534: Advanced Leadership Models (4cr.)
BUS 510: Managing Organizational Effectiveness (4cr.)
BUS 546: Global Econ Issues Seminar (4cr.)
BUS 507: Global Business (4cr.)

Sub-total (second academic year credits).....24 cr.

Elective credits (taken during the first or second summer, second Winter, and/or second Spring Quarters......20 cr.

Total credits required for the degree.....72 cr.

Master of Science in Accounting
The University of Washington Bothell offers a Master of Science in Accounting. Evening classes are primarily held at the Eastside Leadership Center in Bellevue. Students study fundamental accounting principles and develop advanced knowledge and critical thinking skills.

The program helps students gain critical insights into advanced financial reporting, auditing and managerial accounting and provides credits needed to satisfy the fifth year educational requirement necessary for CPA examination eligibility. Drawing from contemporary research, UW Bothell MS Accounting students will graduate with an awareness of the current intellectual debates surrounding accounting rules. Our world-class faculty will provide strong analytical, research and business communication skills that will get students noticed by industry and public accounting firms.

Admission Requirements
The MS Accounting Program at UW Bothell accepts applications from professionals who have an undergraduate degree in Accounting or in Business at a recognized four-year U.S. University or equivalent
Students that do not have an undergraduate degree in Accounting or Business but complete the necessary prerequisite coursework are eligible to apply. In addition to having completed the necessary pre-requisite coursework, admission decisions will be based on multiple criteria such as the candidate’s overall and accounting GPAs, personal interviews and, unless specifically waived by the admissions committee, performance on the GMAT exam.

**Prerequisite Coursework**

Applicants must have completed, or expect to have completed by the time they start the Master’s program, upper level undergraduate Accounting courses in the following areas:

- Intermediate Accounting
- Cost Accounting
- Federal Income Taxation
- Auditing
- Accounting Information Systems

To learn more details about the UWB MS Accounting admissions requirements and deadlines, please visit our website: www.uwb.edu/ms-accounting.

**MS Accounting Curriculum**

The MS Accounting program allows students to connect studies with the contemporary business environment. Courses offer a balance of theoretical and practical knowledge relevant to accountants, which aims to build human capital for short and long term.

The program consists of seven required core classes (25 credits) and five elective classes (20 credits) offered during autumn, winter, spring and summer quarters each academic year. Students complete the program in one year on a full-time schedule or may choose to earn the degree on a part-time schedule.

Students will learn a body of knowledge that is of immediate relevance to practicing accountants along with a working understanding of the foundations of modern finance and economics. Specifically, we expect our MS Accounting students to acquire a graduate level knowledge base in these topics and areas:

- Advanced accounting topics including consolidations and foreign currency issues
- Governmental and nonprofit accounting models
- Fundamental principles of Accounting Theory
- Advanced issues in managerial accounting
- Business law and ethical frameworks for decision making
- Critical perspectives on advanced financial reporting
- Analysis of financial statements for valuing a firm
- Modeling consequences of accounting rules and regulations
- Advanced auditing and forensic techniques
- Tax planning and research methodologies

**Core Courses (25 Credits Required):**

- B ACCT 501 - Accounting Theory (4 cr.)
- B ACCT 504 - Advanced Managerial Accounting (4 cr.)
- B ACCT 503 - Corporate Financial Reporting (4 cr.)
- B ACCT 505 - Financial Statement Analysis (4 cr.)
- B ACCT 502 - Seminar on Financial Accounting (4 cr.)
- B ACCT 506 - Seminar on Strategic Cost Management (4 cr.)
- B ACCT 510 - The Accounting Profession (1 cr.)

**Electives: (20 Credits Required)**

Students are required to complete 20 credits of elective coursework. The program offers an extensive set of elective courses that provide flexibility and allow students to customize their MS Accounting program based on areas of interest and career goals. Electives are available in advanced areas of Financial and Managerial Accounting, Auditing and Tax, and Forensic Accounting, as well as Finance, Economics and other business disciplines within the MBA elective coursework. Special topics include a variety of interest areas, and may vary each quarter.
School of Education

Master of Education Leadership Development for Educators (LEDE)
The Master of Education Leadership Development for Educators (LEDE) program is designed to build on an existing foundation of instructional leadership and support teachers as they transition to administrative positions in schools and districts. LEDE programs focus on performance tasks completed by participants on-the-job in their school or district and intensive seminars on Saturdays and during the summer. Two options are available focusing on different areas of leadership (LEDE for Principal preparation and ECSEL for Special Education Administration) and lead to a Master of Education degree and Washington State Residency Certification in the appropriate administrative area.

Option 1
Leadership for Schools
Many of the instructional leadership skills that are so central to principal success are developed over time as teachers take on challenging responsibilities in their schools.

This understanding is the foundation for the principal preparation program that UW Bothell offers in partnership with several school districts, the Center for Strengthening the Teaching Profession, and the Center for Educational Leadership. With new thinking about how to coordinate teachers’ on-the-job learning and university classes, the program supports teacher instructional leaders and helps them document their learning so that it contributes to requirements for a Master of Education degree and Washington State Residency Principal Certification.

A Two-part Program...

Part 1 launches with two seminars on instructional and personal leadership. Teachers then join a network of teacher instructional leaders and work at their own pace with a set of performance tasks that relate directly to the work of instructional and personal leadership in schools. Quarterly progress reviews provide feedback and assistance.

Part 2 is a cohort-based program capstone that combines three seminars with a simultaneous internship. It features a balance of e-learning, face-to-face seminars, and clinical practice. The seminars in Part 2 are commuter and work-friendly.

A performance-based program
A series of structured and practical performance tasks integrate learning from seminars, e-learning, and clinical practice. Through these tasks, candidates document both practical experience and conceptual understandings related to all certification standards and UW Bothell M.Ed. degree requirements.

Part 1 Saturday Seminars
Introductory Quarter: Autumn Quarters (4-12 credits)*
- LEDE 520 Leadership for Curriculum and Teaching (2-6 cr, max. 8)
- LEDE 510 Personal Leadership for Schools (2-6 cr, max. 8)

*Enrollment during introductory quarter is 4-12 credits depending on prior experience as a teacher leader and prior academic coursework that is appropriate for transfer into the program. Prior experience is determined during the admissions process.

Part 2 Saturday Seminars
Autumn, Winter, and Spring Quarters (28 credits)
- LEDE 530 Leading Schools as Responsive Public Institutions (2-6 cr, max. 8)
- LEDE 540 Leading Schools as Continuously Renewing Organizations (2-6 cr, max. 8)
- LEDE 550 Leading Inclusive School Communities (2-6 cr, max. 8)
- LEDE 510 Personal Leadership for Schools (2-6 cr, max. 8)

Option 2
Expanding Capacity for Special Education Leadership (ECSEL)
This program is a state-wide collaborative partnership program that focuses on knowledge and skills needed for local education administration. Led by a faculty team from across the UW and WSU...
campuses, the program qualifies candidates for a Washington Residency Program Administrator Certification that prepares candidates to in leadership positions in special education administration at the district level.

**Program Structure**
During each of the two years, the program consists of three year-long seminars, a 400-hour internship requirement, and a set of performance tasks that allow candidates to demonstrate proficiency. The year 1 program focuses on leadership for special education at the school level, with seminars, internship, and performance tasks all focused on leadership for teaching, learning, and student services within a school. In year 2, the focus shifts to leadership at the district level, with the internship and program tasks reflecting district-level responsibilities. In both years, the program operates in a blended online and face-to-face model, with summer and weekend meetings supplemented by e-learning resources.

A series of structured and practical performance tasks integrate learning from seminars, e-learning, and clinical practice. Through these tasks candidates document both practical experience and conceptual understandings related to all certification standards and UW Bothell M.Ed. degree requirements.

**Curriculum**
The curriculum is structured to incorporate both Washington State standards for the Residency Program Administrator certificate and the Council for Exceptional Children's advanced standards for program administrators. Seminars include:

- **LEDE 510** Personal Leadership for Schools (2-6 cr, max. 8)
- **LEDE 520** Leadership for Curriculum and Teaching (2-6 cr, max. 8)
- **LEDE 560** Leadership for Student Services (2-6 cr, max. 8)
- **LEDE 530** Leading Schools as Responsive Public Institutions (2-6 cr, max. 8)
- **LEDE 540** Leading Schools as Continuously Renewing Organizations (2-6 cr, max. 8)
- **LEDE 550** Leading Inclusive School Communities (2-6 cr, max. 8)

**Master of Education (M.Ed.)**
In the Master of Education program, students are encouraged to think deeply about the complex nature of education and to explore questions central to their own professional growth. They should also be committed to growing in the skills of writing, critical thinking, and collaborative learning. Master of Education students must complete a minimum of 46 credits.

**Core Courses**
The program generally begins with three core courses. These courses focus on:
- Examination of research methodologies and the generation of research questions. (**B EDUC 501**)
- The use of multicultural education as a theoretical foundation for examining the ways in which students' biographical journeys, values, and beliefs influence the questions they raise and the framing of those questions. (**B EDUC 502**)
- Organizational change and school reform as well as the responsibilities of professional leadership related to educational change. (**B EDUC 504**)

**Individual Program of Study**
In addition to the core courses, students may choose elective courses under the guidance of their faculty advisor. These may be selected from M.Ed. courses, or students may elect to take appropriate courses in other academic programs such as the UW Bothell Master of Arts in Policy Studies or the College of Education at UW Seattle. A maximum of twelve credits of graduate-level coursework may be taken outside the Education program.

**Reading Endorsement**
The Reading Endorsement at UW Bothell is designed for practicing teachers who hold an elementary or secondary teaching certificate. Teachers who complete the requirements for the Reading Endorsement will be prepared to be reading specialists or literacy coaches.
In order to complete the Reading Endorsement, students must complete an approved Reading Endorsement course of study (24 credits) which will help them meet the areas of competency established by the Office of Superintendent of Public Instruction (OSPI). This course of study will also help them meet the higher levels of competency established by the International Reading Association for reading coaches or specialists. Students must also pass the NES “Essential Components for Elementary Reading Instruction” test to meet state requirements.

Students will work with a faculty advisor to develop an individualized plan for completing the 24 credits required for the Reading Endorsement. The following courses are offered by UW Bothell to fulfill those requirements:

- B EDUC 510 Literacy Instruction for Diverse Learners
- B EDUC 517 Working with Struggling Readers Grades 3-8
- B EDUC 518 Observing and Describing Children and Their Work
- B EDUC 521 Using Multicultural Literature in the Classroom
- B EDUC 534 Current Issues in Literacy Research
- B EDUC 537 Assessment
- B EDUC 535 Writing Across the Curriculum
- B EDUC 508 Early Literacy Development and Instruction
- B EDUC 538 Adolescent Literacy
- B EDUC 539 Literacy Coaching

**English Language Learner (ELL) Endorsement**

The English Language Learner (ELL) Endorsement is designed to guide educators through the entire process of supporting English language learners from classroom inclusion through program leadership and assessment. Certified Washington State teachers who successfully complete the ELL requirements will be able to add that endorsement to their existing certification.

The complete ELL course of study is four graduate-level classes, and one field-based practicum, for a total of 23 credits. Currently certified teachers who wish to earn the ELL endorsement may be able to complete the practicum in their current classroom or in another K-12 school that employs a certified ELL teacher. Non-certified students may also complete a practicum appropriate to their area of interest but will not be eligible for the endorsement. Teachers must also pass the WEST-E test for ELL to meet state requirements for the endorsement.

Graduate students may take any of the ELL classes as long as they meet the prerequisite requirements (see catalog descriptions). In order to earn the ELL endorsement, teachers must take all five of the required courses and pass the WEST-E test for ELL.

- B EDUC 540 Principles of Inclusion: Students and Families (5 cr)
- B EDUC 541 Second Language Acquisition, Bilingual Education, and the Structure of English (5 cr)
- B EDUC 542 Curriculum, Instruction, and Assessment in ELL or TESOL (5 cr)
- B EDUC 543 Practicum in ELL or TESOL (3 cr)
- B EDUC 544 Leadership and Program Assessment in ELL or TESOL (5 cr)

**M.Ed. Completion Dossier**

The M.Ed. Completion Dossier provides an opportunity for candidates to demonstrate comprehensive knowledge, skills, and dispositions associated with the program’s overall goals for academic learning and improvement of professional practice in education. The Completion Dossier ensures breadth of academic work and application of knowledge in each candidate’s work toward the M.Ed. degree, which is guided by the Education Program’s goals for the degree.

The Completion Dossier contains four sections:

1. An **introduction** to the Completion Dossier, in which the student describes how four academic products and one application product to be presented in the dossier, taken as a whole, meet the Education Program’s learning goals as elaborated in the rubric for completion dossiers.
2. **Four substantive academic products**
   normally developed in conjunction with four different graduate courses
3. **One** of the following products that demonstrate **application of knowledge** in the student’s practice:
   - Curriculum Development Project
   - Practitioner-Focused Research Paper
   - Critical Literature Review
   - Assessment of Preparation for Teaching (Secondary and Middle Level Teacher Certification option only)
4. A **reflection** on their own growth as a student during the course of the program and how the contents of the Dossier reflect that growth.

**Admissions Requirements**
To be accepted into the Master of Education program, applicants must meet the following minimum requirements:
- A bachelor’s degree from an accredited institution
  - G.P.A. of 3.0 in the last 90 credits of upper-division graded coursework
- Applications will also be evaluated on the basis of:
  - Admission essay
  - Two letters of recommendation
  - Resume

**Graduate School Requirements**
In addition to University of Washington Bothell requirements, students must meet the following requirements to receive the master’s degree:
- At least 18 numerically graded credits must be taken at the 500 level or above.
- The Graduate School accepts numerical grades (1) in approved 400-level courses accepted as part of the major, and (2) in all 500 level course work. A minimum cumulative G.P.A. of 3.0 is required.
- All work for the Master of Education degree must be completed within six years.
- For matriculated graduate students in another program, a maximum of 10 credits of graduate course work may be considered for transfer into the program based on the provisions and regulations of the Graduate School. A minimum grade of 3.0 is required for each course.
- A maximum of six credits at the graduate level may be considered for transfer into the program for non-matriculated graduate students. A minimum grade of 3.0 is required for each course.
- No courses below the 300 level will be accepted.
- For additional Graduate School requirements, see the University of Washington General Catalog.

**Master of Arts in Policy Studies (MAPS)**
The Master of Arts in Policy Studies reflects an innovative, integrated approach to the study of contemporary policy issues in local and global contexts and prepares students for policy-related analyst and leadership careers in public, private, and non-profit organizations. Policy Studies offers Autumn Quarter admission and is a full-time program. The curriculum emphasizes the integration of skills, abilities, and fields of knowledge with the field experiences, applied research, learning opportunities, and professional skills essential for policy professionals and organizational leaders working in our complex, rapidly changing regional and global environments. Through evening class seminars, small group and on-line study, service learning, field research, internship options, and a capstone project, students will acquire the depth of knowledge, practical experiences, and sophisticated professional skills critical to their success as future leaders.
**Course Sequence**

<table>
<thead>
<tr>
<th>Year One</th>
<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BPOLST 502: Policy Elective (5 credits)</td>
<td>BPOLST 503: Policy Analysis and Program Evaluation (5 credits)</td>
<td>BPOLST 504: Policy Elective (5 credits)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year Two</th>
<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BPOLST 504: Management and Organization (5)</td>
<td>BPOLST 505: Leadership and Organizations (5)</td>
<td>BPOLST 506: Capstone Research (5 credits)</td>
</tr>
<tr>
<td></td>
<td>Policy Elective (5 credits)</td>
<td>BPOLST 508: Capstone Project (5)</td>
<td>Policy Elective (5 credits)</td>
</tr>
</tbody>
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**Master of Arts in Cultural Studies (MACS)**

The Master of Arts in Cultural Studies offers an integrative approach to the study of culture as both a field of inquiry and a means of community engagement. Designed for a small cohort, Cultural Studies prepares students for careers in social, cultural, and arts fields or further interdisciplinary graduate education across the arts, humanities, and social and natural sciences.

The MA in Cultural Studies is the first graduate program in the Pacific Northwest, and one of very few programs nationally, to partner the interdisciplinary study of art and culture with a community-based learning network. Its curriculum emphasizes diverse approaches to cultural research and collaboration. Linking theory and practice, it provides students varied opportunities to analyze and transform cultural practices.

Portfolio- and project-based, the program’s curriculum and learning environment are intentionally collaborative, generative, and flexible. At every stage, the curriculum builds on the energy and resources that students and faculty bring to the program. It will work equally well for students whose background is largely academic and those with extensive professional experience. The program portfolio and capstone project provide Cultural Studies students with multiple opportunities to develop and document a rich set of professional skills, that, together with a vital network of community relationships, will enhance their future careers across a range of arts and cultural practices and fields.

<table>
<thead>
<tr>
<th>Course Sequence</th>
<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year One</td>
<td>BCULST 500: Formations of Cultural Studies (10 credits)</td>
<td>BCULST 501: Cultural Studies as Collaboration (5 credits)</td>
<td>BCULST 502: Cultural Studies Research Practices (5 credits)</td>
</tr>
<tr>
<td></td>
<td>Cultural Studies elective (5 credits)</td>
<td>Cultural Studies elective (5 credits)</td>
<td>Cultural Studies elective (5 credits)</td>
</tr>
</tbody>
</table>
### Master of Fine Arts in Creative Writing and Poetics

The intensive, first year curriculum is based on areas of inquiry, rather than genres (poetry, fiction, non-fiction), creating an alternative to most regional and national MFA programs. The MFA addresses the central question of poetics: why do we write how we write? It inquires into the social, cultural, and technological aspects of writing, and asks: How is creative writing an ethical, political, and aesthetic endeavor? What forms might creative writing take in an interconnected and global society? How does new media alter the context and possibilities for the pursuit of creative writing?

In the second year, students pursue a thesis with an advisor and an individualized course of study. Some degree candidates may choose to write their thesis as a single genre; others may elect hybrid modes that utilize multiple genres or media. The second year is designed to give students access to a broad range of interdisciplinary courses so that they can develop an area of expertise pertinent to their written arts and career paths. Each year, there is a Fall Convergence and Spring Festival in which our graduate students, UWB faculty, and invited nationally and internationally renowned writers engage with each other. These symposia host author and student readings, lectures on poetics, and open discussion.

### Admission Requirements

Graduate School requirements include a bachelor’s degree from an accredited college or university and an overall grade point average (GPA) of at least 3.0 in the last 90 quarter (60 semester) credits.

### Course Sequence

The UW Bothell MFA consists of a residency program in its first year, and residency and non-residency options in its second year. Students participate in the program as a member of a cohort of approximately 18 MFA students and are required to take 10 credits per quarter.

<table>
<thead>
<tr>
<th>Year</th>
<th>Autumn Quarter</th>
<th>Winter Quarter</th>
<th>Spring Quarter</th>
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</thead>
<tbody>
<tr>
<td>One</td>
<td>BCWRIT 500: Writing Workshop: Between Prose and Poetry (5 credits)</td>
<td>BCWRIT 501: Writing Workshop: Between Fact and Imagination (5 credits)</td>
<td>BCWRIT 502: Writing Workshop: Processes of Thinking and Memory (5 credits)</td>
</tr>
<tr>
<td></td>
<td>BCWRIT 510: Poetics Seminar: Cultural Change and Writing (5 credits)</td>
<td>BCWRIT 511: Poetics Seminar: Writers’ Research (5 credits)</td>
<td>BCWRIT 512: Poetics Seminar: Art, Technology, Practice (5 credits)</td>
</tr>
<tr>
<td>Two</td>
<td>BCWRIT 700: Creative Writing Thesis (5 credits)</td>
<td>BCWRIT 700: Creative Writing Thesis (5 credits)</td>
<td>BCWRIT 700: Creative Writing Thesis (5 credits)</td>
</tr>
<tr>
<td></td>
<td>Elective Course (5 credits)</td>
<td>Elective Course (5 credits)</td>
<td>Elective Course (5 credits)</td>
</tr>
</tbody>
</table>
**Master of Nursing**

UW Bothell’s Nursing Program offers graduate study leading to the Master of Nursing (MN) degree. This program is designed to meet the needs of working nurses who are interested in advancing their careers through graduate education. The University of Washington Bothell campus provides exceptional faculty and staff support and considers the student-faculty relationship to be paramount.

Central to the program is the development of leadership skills in practice, research and education through theory, research methods, and program development and evaluation. Core values emerge through selected course work in ethics, aesthetics, and diversity and social justice. At UW Bothell, the core MN curriculum highlights scholarly inquiry, health care systems, policies, and social issues related to the pressing health issues facing our state, nation, and the global community. Students pursue scholarly inquiry through a committee guided project that often is completed in collaboration with the students’ current workplace. Focused field work in the second year permits substantive experience in a variety of settings in order to examine advanced nursing roles and apply core concepts into the real-world context of health care.

The program utilizes a cohort model with students admitted each fall. The first year focuses on core content consistent with AACN’s Essentials of Master’s Education. The second year provides the opportunity for individualized specialization through electives, fieldwork and scholarly projects that prepare graduates for advanced nursing roles in a variety of health-related settings.

The MN program is designed with block course scheduling with classes one day per week (Fridays). This includes 6 credits (2 courses) per quarter scheduled over 7 quarters of part-time graduate study. Occasionally students extend their course of study over an 11 quarter sequence taking 3 credits (1 course) per quarter for the first 2 years and 6 credits (2-3 courses) during their third year. Course work may be started prior to formal admission to the program as a graduate non-matriculated student (GNM). GNM status allows the student to complete graduate-level courses of which up to 12 credits may later be applied toward the Master of Nursing degree.

**Program Goals**

Graduates of the Master of Nursing program are able to:

- Evaluate the adequacy of underlying knowledge from nursing science, related fields and professional foundations as it informs advanced practice.
- Competently access and manage health-related issues within a defined population or care system, and evaluate the effectiveness of these advanced nursing practices.
- Utilize knowledge and skills in professional practice among diverse and multicultural populations.
- Demonstrate competence in development of inquiry relevant to practice, education or administration.
- Develop and utilize leadership strategies that foster improvement of health care.

**Admission Requirements**

Application to the Master of Nursing program is open to any professional registered nurse licensed to practice in Washington State who meets the following criteria:

- Graduation from an accredited nursing program
- GPA of 3.0 or higher
- Baccalaureate degree in nursing or related field
- 3-credit basic statistics course
- Graduate Record Exam (GRE) is no longer a requirement for admission

The application process includes documentation of the above admission criteria as well as a personal goal statement that is congruent with program outcomes, references, and a professional resume describing educational background and professional experience.
What kind of experience(s) is preferred in applicants?
Professional goals should be congruent with program goals.
- Last 90 graded credits with a 3.0 GPA or better
- Evidence of clinical practice experience in the U.S. in a professional role.
- Ability to communicate professionally in English, both verbally and in writing.

Program Structure

Credits
Nursing Science and Foundations - 15 credits
B NURS 501, Philosophy & Theoretical Foundations of Advanced Nursing Practice
B NURS 504, Disparity & Social Justice in Health Care
B NURS 508, Ethics, Aesthetics
B NURS 525, Leadership in Advanced Nursing
B NURS 526, Program Planning & Evaluation

Scholarly Inquiry - 9-12 credits
B NURS 520, Scholarly Inquiry for Nursing Practice I
B NURS 521, Scholarly Inquiry for Nursing Practice II
B NURS 598, Scholarly Project

Clinical/Fieldwork - 6-8 credits
B NURS 503, Advanced Fieldwork
B NURS 507, Advanced Nursing Roles

Electives - 6-11 credits

• Total minimum credits for Master of Nursing: 41-42

School of Science, Technology, Engineering and Mathematics

Division of Computing and Software Systems

Master of Science in Computer Science & Software Engineering
The Master of Science in Computer Science & Software Engineering (MSCSSE) partners advanced studies in computer science with detailed analysis of software engineering methodologies. By coupling theoretical computing concepts with real-world problems, students develop the breadth of expertise necessary to succeed in today’s competitive software profession, prepared for rewarding positions and advanced career opportunities in sectors such as software development, biotech, medicine, aerospace, entertainment, and finance.

The Master of Science in Computer Science & Software Engineering requires completion of 45 credits of graduate level coursework. Part-time students should plan on enrolling in 5 credits per quarter; full-time students should plan on taking 10 credits per quarter.

Admission Requirements
A Bachelor of Science in Computer Science & Software Engineering, Computer Science, or related field showing the appropriate curriculum, or completion of the Graduate Certificate in Software Design & Development. Please view our website for complete information on how to apply to the Master of Science in Computer Science & Software Engineering: www.uwb.edu/mscsse.

Degree Requirements:
(45 credits)
- 15 credits of CSS core coursework, one from each group:
  - Development
  - Design
  - Foundations
- 10 credits minimum of CSS 700: Master's Thesis, OR, for student pursuing the Project Option, completion of both:
  - CSS 595: Capstone Project I, with a grade of 2.7 or higher
  - CSS 596: Capstone Project II, with a grade of 2.7 or higher
- 20 credits minimum of combined of CSS 500-level, 600, or approved 400-level courses
  - Students admitted from the Graduate Certificate in Software Design and Development may be required to complete 5 – 10 credits of systems coursework as determined by the CSS Faculty upon admission to the MS CSSE program.
  - A maximum of 6 credits of CSS 600: Independent Study or Research may be
counted towards degree requirements

- A maximum of 10 credits of approved CSS 400-level courses may be counted towards degree requirements
- With BOTH departmental and UW Graduate School approval, students may include up to 5 credits of graduate-level transfer credits from accredited outside institutions; a minimum grade of 3.0 in each transfer course is required.

- Not more than 12 UW Graduate Non-matriculated credits may be counted (courses in the Graduate Certificate in Software Design & Development cannot be counted towards any MSCSSE degree requirements)
- No more than 12 credits derived from any combination of UW Graduate Non-matriculated credits and transfer credits can be applied.
- Minimum grade of 2.7 in each course required to count towards degree requirements.
- Minimum cumulative GPA of 3.0 is required to graduate.

Graduate Certificate in Software Design & Development (GCSDD)
The Graduate Certificate in Software Design & Development (GCSDD) is designed for those who lack formal education in computer science, but desire to enter into the field of software development and/or pursue a Master of Science degree. The Graduate Certificate consists of 18 credits taken over a complete academic year. Courses meet twice a week in the evening. Certificate courses will not count towards any CSS Division Graduate degree requirements; however, the completed certificate can be used as the admission prerequisites for either MS degree program for applicants who have a bachelor’s degree in a field other than computer science. In order to earn the certificate, students must complete ALL courses in the certificate with a minimum of a 2.7 in each class, and a 3.0 cumulative GPA. The GCSDD is not appropriate for students studying on an F-1 Visa.

Admission Requirements to the GCSDD
Admission to the certificate requires two quarters of object-oriented programming (CSS 161 and 162 or equivalent) and one calculus course (BCUSP 124 or equivalent), as well as a bachelor’s degree from an accredited institution, with a 3.0 GPA in the last 90 quarter or 60 semester credits. Admission to the Graduate Certificate is currently for Fall Quarter only, and is competitive.

Master of Science in Cyber Security Engineering
The Master of Science in Cyber Security Engineering represents the leading edge of future growth in the computing profession. Graduates will be able to design, analyze and execute secure lifecycle development efforts for information technology intensive systems and networks in a manner that couples theoretical computer science with cyber security in a formal practice. Students will learn to engineer security relevant approaches to both new development efforts and to the improvement, defense, and maintenance of existing (legacy) systems, with knowledge of end-of-life issues. Our graduates will be able to design a forensics-ready architecture for defensible and resilient systems and networks.

Admission Requirements
A Bachelor of Science in Computer Science & Software Engineering, Computer Science, or related field showing the appropriate curriculum, or completion of the Graduate Certificate in Software Design & Development. Please view our website for complete information on how to apply to the Masters of Science in Cyber Security Engineering: www.uwb.edu/cybersecurity

Degree Requirements:
(49 credits)
- 34 credits of core coursework:
  - CSS 514: Security, Policy, Ethics and the Legal Framework
  - CSS 515: Contemporary Topics in Information Assurance
- CSS 517: Information Assurance and the Secure Development Lifecycle
- CSS 519: Incident Response and Recovery
- CSS 527: Cryptology and Data Protection
- CSS 537: Network and Internet Security
- CSS 577: Secure Software Development
- CSS 578: Vulnerability Analysis and Detection

- 10 credits minimum of combined of CSS 500-level, 600, or approved 400-level courses
  - A maximum of 6 credits of CSS 600: Independent Study or Research may be counted towards degree requirements
  - A maximum of 10 credits of approved CSS 400-level courses may be counted towards degree requirements
  - With BOTH departmental and UW Graduate School approval, students may include up to 5 credits of graduate-level transfer credits from accredited outside institutions; a minimum grade of 3.0 in each transfer course is required.

- 5 credits of Project coursework
  - CSS 593: Cyber Security Engineering Capstone, with a grade of 2.7 or higher
    - In special cases, students may complete 10 credits of CSS 700: Thesis coursework in place of their CSS 593 Capstone

- Not more than 12 UW Graduate Non-matriculated credits may be counted towards any CSS Division graduate degree requirements

- No more than 12 credits derived from any combination of UW Graduate Non-matriculated credits and transfer credits can be applied.
- Minimum grade of 2.7 in each course required to count towards degree requirements.
- Minimum cumulative GPA of 3.0 is required to graduate.
VIII.  Teacher Certification and Education Minors

Secondary and Middle Level Teacher Certification (M.Ed.)*

The Secondary and Middle Level Teacher Certification M.Ed. program at the University of Washington Bothell leads to both a Master of Education degree and a Washington State Residency Certificate with endorsements in General Science with the option of including Biology, English/Language Arts, Social Studies with the option of adding History, and Mathematics. An English Language Learners endorsement can be added to any of these areas.

*Program design is subject to modification.

Program Structure
The Secondary and Middle Level Teacher Certification M.Ed. program integrates carefully planned and coordinated graduate level courses with structured field experiences, assignments and reflective seminars. You are challenged to apply and extend what you learn in class to your work with youth in high school and middle school settings.

Professional Practice seminars are incorporated into the program and provide an opportunity for you to examine the role of the teacher and the complexities of work in schools. Students attend classes two nights a week for the first three quarters (autumn, winter, and spring). Autumn quarter of the second year, you will be placed in a school five days a week through the end of winter quarter at which time you will complete your teacher certification. Spring quarter coursework completes your Master of Education degree.

Courses
The Secondary and Middle Level Teacher Certification M.Ed. students take courses that are designed to foster their professional expertise and state-of-the-art knowledge in pedagogy, curriculum, teacher leadership, multiculturalism, and cross-curricular literacy. Students have numerous opportunities to learn along with experienced teachers in M.Ed. classes including core courses of the M.Ed. Program.

All of the participants in the UW Bothell Master of Education program take three core courses. These courses focus on:

- Examination of research methodologies and the generation of research questions
- The use of multicultural education as a theoretical foundation for examining the ways in which students' biographical journeys, values, and beliefs influence the questions they raise and the framing of those questions.
- Organizational change and school reform as well as the responsibilities of professional leadership related to educational change.

Endorsement Area
A significant portion of the program is spent examining instruction and assessment of a chosen endorsement area. Endorsement areas currently supported by the program are:

- General Science with the option of Biology
- English Language Arts
- Mathematics
- Social Studies with the option of History

Additional coursework taken during the program can lead to the addition of an English Language Learners or Special Education endorsement.*

*Beginning Summer 2015

Students also choose an elective course under the guidance of a faculty advisor. This may be selected from M.Ed. courses or from appropriate courses in other academic programs such as the UW Bothell Master of Arts in Policy Studies. With the permission of a faculty advisor, up to twelve credits of graduate-level coursework may be taken outside the program.

Fieldwork
Secondary and Middle Level Teacher Certification M.Ed. students spend two full-time quarters in field placements in which they have increasing curricular and instructional responsibility. Guided and supported by faculty and cooperating teachers, students will have multiple opportunities to learn,
observe, and apply a variety of instructional methods and tools in different educational settings.

**Curriculum**

**Autumn Quarter**
B EDUC 501  Inquiry in Education (5 cr)
B EDUC 557  Curriculum Studies (3 cr)

**Winter Quarter**
B EDUC 502  Teachers’ Self-Knowledge (5 cr)
B EDUC 556  Adolescent Development (5 cr)
Includes 20 hours of community based learning (approximately 2 hours a week) in a school or other educational setting. University provides support in finding a placement with flexibility in scheduling.

**Spring Quarter**
BEDUC 540  Principles of Inclusion: Students and Families (5 cr)
And one of the following Curriculum, Instruction and Assessment (CIA) classes:
BEDUC 552  Secondary and Middle Level Science I (5 cr)
BEDUC 553  Secondary and Middle Level English, Social Studies and History (5 cr)
BEDUC 559  Secondary and Middle Level Math I (5 cr)
CIA courses include 20 hours of community based learning (approximately 2 hours a week) in a school or other educational setting. University provides support in finding a placement with flexibility in scheduling.

**Summer Quarter**
Optional: Elective (3-5 cr)*

**Autumn Quarter**
B EDUC 591  Intro to Field Placement (Sept Experience) (2 cr)
B EDUC 564  Field Experience (6 cr)
And one of the following CIA classes (students earning more than one endorsement may have to take additional Autumn CIA classes):
B EDUC 554  Secondary and Middle Level Science (5 cr)
B EDUC 558  Secondary and Middle Level Social Studies/History (5 cr)
B EDUC 560  Secondary and Middle Level Math II (5 cr)

B EDUC 563  Secondary and Middle Level English Language Arts (5 cr)

**Winter Quarter**
B EDUC 565  Student Teaching (10 cr)
B EDUC 591  Professional Practice Seminar (2 cr)

**Spring Quarter**
B EDUC 504  Theories of Organizational Change and School Reform (5 cr)
Optional: Elective (3-5 cr)*

*Students are required to take at least one 3 to 5 credit elective course as part of their M.Ed. program. Electives can be chosen from graduate level Education courses on the Bothell, Seattle, or Tacoma campus. Students are encouraged to take advantage of opportunities to pursue electives that supplement their learning and special interests at appropriate times during the program.

**The program is subject to change and modification.**

**Completion Dossier**

The M.Ed. Completion Dossier provides an opportunity for candidates to demonstrate comprehensive knowledge, skills, and dispositions associated with the program’s overall goals for academic learning and improvement of professional practice in education. The Completion Dossier ensures breadth of academic work and application of knowledge in each candidate’s work toward the M.Ed. degree, which is guided by the Education Program’s goals for the degree.

**The Completion Dossier contains four sections:**

1. **An introduction** to the Completion Dossier, in which the student describes how four academic products and one application product to be presented in the dossier, taken as a whole, meet the Education Program’s learning goals as elaborated in the rubric for completion dossiers.

2. **Four substantive academic products**, normally developed in conjunction with four different graduate courses

3. **One product that demonstrates application of knowledge** in the student’s practice in the form of the EdTPA, completed during Student Teaching.
4. A reflection

Upon successful completion of the program, graduates will have earned both a Master of Education degree and a Washington State Residency Certificate with an endorsement(s) in General Science with the option of including Biology, English/Language Arts, Mathematics, and/or Social Studies with the option of including History.

Admission Requirements
To be admitted to the Secondary and Middle Level Teacher Certification Master of Education program at the University of Washington Bothell, applicants must simultaneously be admitted to the Graduate School of the University of Washington.

Applicants must also meet the following requirements:

- Bachelor’s degree from an accredited institution
- GPA of 3.0 or higher in the last 90 quarter credits or 60 semester credits of graded upper-division coursework
- Transcript Evaluation to ensure completion of appropriate courses in endorsement area
- 60 hours of work with secondary or middle level youth, with at least 30 hours in U.S. public high school or middle school classrooms
- Pass all three sections of the Basic Skills Test (WEST-B)
- Pass a subject test in endorsement area(s)
- The required application materials are detailed on the program webpage for the Secondary Application Checklist

In addition to University of Washington Bothell requirements, you must meet the following requirements to receive your degree and certification:

- At least 18 numerically graded credits must be taken at the 500 level or above.
- The Graduate School accepts numerical grades (1) in approved 400-level courses accepted as part of the major, and (2) in all 500 level coursework. A minimum cumulative G.P.A. of 3.00 is required.
- All work for the Master of Education degree must be completed within six years.

No courses below the 300 level will be accepted. For additional Graduate School requirements that may apply to you, see the University of Washington General Catalog.

Transfer Credits
If you were a matriculated graduate student in another program, a maximum of 6 credits of graduate coursework may be considered for transfer into the program based on the provisions and regulations of the Graduate School. A minimum grade of 3.0 is required for each course.

A maximum of six credits at the graduate level may be considered for transfer into the program if you were not a matriculated graduate student. A minimum grade of 3.0 is required for each course.

K-8 Teacher Certification*
(post baccalaureate)

The UW Bothell K-8 Teacher Certification Program prepares innovative, ethical practitioners who are grounded in intellectual and professional communities and who are dedicated to educating diverse students. The Program leads to a Washington State Residency Certificate with an endorsement in Elementary Education. Endorsements in Middle Level-Humanities, Middle Level-Math, and Middle Level-Science are also available.

The K-8 Teacher Certification program integrates courses and structured field experiences. Throughout the program, you will spend over 800 hours in K-8 classrooms under the guidance of outstanding practicing teachers. From the beginning of the program, you are challenged to apply and extend what you learn in class to your work with children and youth in several school settings.
The program consists of a carefully planned and coordinated set of courses, field assignments, and reflective seminars. Faculty coordinate syllabi and the curriculum to support an integrative approach to teacher preparation.

Each full-time quarter, you will engage in reflective seminars and examine the professional role of the teacher and the complexities of work in schools. You'll learn innovative teaching techniques and examine issues of social justice and inclusion in the classroom. You will experience a holistic program, not merely a sequence of loosely connected courses and classroom experiences.*

This is a full-time, four quarter program designed for those who already hold a bachelor's degree.

*Program design is subject to modification.

Candidacy Criteria
The ideal candidate for the K-8 Teacher Certification Program can demonstrate:

- Breadth of knowledge in English/Language Arts, Social Studies, Mathematics, Science, and Fine Arts that will prepare you to succeed in a 21st century classroom.
- Commitment to the intellectual, emotional, physical, and social growth of children in an inclusive school setting.
- Commitment to personal, intellectual, emotional, and professional growth and development.
- Commitment to learn the skills necessary to help ethnically, culturally, socioeconomically, and gender diverse student populations succeed in schools.
- Flexibility to adapt in varied, complex, and dynamic settings.
- Excellent oral and written communication skills.

Academic Requirements
To be considered for the K-8 Teacher Certification Program, applicants must have:

- A minimum grade point average of 3.0
- Passed all three sections of the WEST-B Basic Skills Tests
- Passed the NES test in Elementary Education. If applicable, the middle level endorsement tests must be taken and passed by the end of summer quarter.
- A bachelor’s degree from an accredited institution
- Documentation of academic breadth. For each subject area listed below, applicants must document completed college courses, including the year taken and grades. A minimum grade of 2.0 (or grade of C) in each academic breadth course is required.
- Social Sciences – 2 courses from two different social science areas (e.g. U.S. History, sociology, geography, economics, political science, global studies, gender studies, etc.)
- English – 2 courses, 1 must be in composition and 1 can be in any area of English literature or writing.
- Science – 2 courses from two different science areas, 1 lab required (e.g. biology, chemistry, climate science, oceanography, geology, physics, etc.)
- Math - 2 courses, one should focus on Math for Teachers* and one can be in any other math area 100 level and above.
- Fine Arts – 1 course focusing on the creation of or practice of an area of fine art (e.g. drawing, dance, music, photography).

Curriculum
(subject to change and revision)

Members of the cohort complete our consecutive full time quarters of coursework beginning spring quarter and ending the following winter quarter. Program curriculum is currently in development. The following is an example of a possible sequence of coursework.

Spring Quarter
Contexts of Learning and Schooling
Academic Suite I: Knowing, Teaching and Assessing: Reading, Writing and Communicating, Mathematics and Current Issues in Technology

Summer Quarter
Human Growth and Learning
Introduction to Special Education
Knowing, Teaching and Assessing: Health, Fitness and Issues of Abuse
September Experience (mid-August to late September)
Introduction to Field Placements

Autumn Quarter
Student Teaching I
Academic Suite II: Knowing, Teaching and Assessing: Reading, Writing and Communicating, Mathematics, and Earth, Physical and Life Sciences
Seminar: Reflections on Professional Practice

Winter Quarter
Student Teaching II
Seminar: Reflections on Professional Practice

B EDUC 425 Seminar: Reflections on Professional Practice
B EDUC 435 Student Teaching
(Total Credits = 17*)

*Credits per course and total credits per quarter are subject to change.

Education and Society Minor

The Education and Society Minor is intended to help students develop broad perspectives on the purposes and forms of education and schooling. It consists of a minimum of 25 credits of coursework and is open to all majors.

B EDUC 220 Education and Society (5 cr) is required for the Minor.
Any of the following Education Program courses can be applied to the Minor:
B EDUC 230 Culture, Knowledge, and Education (5 cr)
B EDUC 250 Topics in Education and Popular Culture (5 cr, max. 10)
B EDUC 315 History of Education in U. S. Schools (5 cr)
B EDUC 330 Race, Culture and Identity in the Classroom (5 cr)
B EDUC 391 Special Topics in Education (1-5 cr, max. 10)

B EDUC 392 Independent Study (1-5cr, Max10, must have faculty sponsor)
B EDUC 452 Service Learning (2 cr) (may take 2x; B EDUC 452 is always attached to a class.)
B EDUC 456 Adolescents in School and Society (5 cr)
B EDUC 460 Moral Dimensions of Education (5 cr)
B EDUC 461 Educational Implications of Gender Inequality (5 cr)
B EDUC 474 Global Englishes (5cr)
B EDUC 475 Global Diversity and Citizenship Education (3 cr)
B EDUC 476 New Literacies for Digital Learning (5 cr)
B EDUC 480 Life and Learning in the Middle School (3 cr)
B EDUC 491 Special Topics in Education (1-5 cr, max. 15)
B EDUC 493 Environmental Education (3 cr)
B EDUC 522 Education and the American Dream (3 cr) (must have senior standing to enroll)

You may choose up to 5-credits from the following designated courses in other programs to use towards the 25 credits required for the Minor:

BIS 219 The Politics of Sex Education (5cr)
BIS 225 Applied Social Psychology (5cr)
BIS 226 Foundations of U.S. Social Services (5 cr)
BIS 328/B EDUC 328 Diversity, Leadership, and Engagement: Match (1-5cr, max. 20) (formerly BIS 494 Task Force: Match Leadership Cohort)
BIS 443 Educational Policy and the American Economy (5 cr)
BIS 445 Meanings and Realities of Inequality (5 cr)
BISIA 484 Arts Learning in the Community (5-10 cr, max. 10 cr)
BHLTH 465 Adolescent Health (5 cr)

Other requirements:
• A 2.0 GPA is required for general admission to the Minor in Education.
• 20 credits of numerically graded coursework must be counted toward the Minor.
• A grade of 2.0 or better is required in each course credited for the Minor.
• B EDUC 452 Service Learning is only graded CR/NC.
Are You a Senior Pursuing K-8 Teacher Certification?

Students with senior standing who are admitted to the K-8 Teacher Certification Program may apply the following specified certification coursework to the Education and Society Minor if completed prior to graduation*:

B EDUC 405  Contexts of Learning and Schooling  (3 cr)
B EDUC 427  Becoming a Professional Educator  (3 cr)

* If accepted into the K-8 certification program, these courses may be taken concurrently with IAS courses in his/her senior year.

Teaching & Learning Minor

The Teaching and Learning Minor is for students in any major who want to strengthen their knowledge of teaching in schools or other community settings. Develop a deeper understanding of topics that impact teachers and educators at all levels such as human development and learning, pedagogy, and diversity in the classroom. Several classes in this Minor provide opportunities to observe and volunteer in formal and informal educational settings. The Teaching and Learning Minor is comprised of 6 courses (30 credits) that, when taken together, lay a strong foundation for future educators in a wide variety of settings.

Required Courses:

B EDUC 220 Education and Society (5 cr) I&S  OR
B EDUC 230 Culture, Knowledge, and Education (5 cr) I&S

and

B EDUC 315 History of Education in the United States (5 cr) I&S
B EDUC 391 The Impact of Technology on Teaching and Learning (5 cr)
B EDUC 330 Race, Culture and Identity in the Classroom (5 cr)
B EDUC 456 Adolescents in School and Society (5 cr) I&S
B EDUC 491 Disability Culture in Schools and Society (5 cr)

The Teaching and Learning Minor is open to students in all majors. If you are interested in teaching or becoming a community educator, please meet with Erica Lind (ELind@uwb.edu) for advising, or consider enrolling in one of the above courses to learn more about the foundations of teaching.
IX. Course Descriptions

The course descriptions contain information on courses offered at UW Bothell. Course descriptions may change quarterly, visit www.washington.edu for the most current descriptions or consult the appropriate academic unit or advisor for more current of specific information.

Business Administration

B BUS 201 Introduction to Business (5) Provides an overview of the entire business function. Topics may include entrepreneurship, leadership, marketing management, financial management, and technology and innovation.

B BUS 210 Principles of Financial Accounting (5) Preparation and use of accounting reports with primary focus on uses of accounting for external reporting. Understand financial statements and prepare statements that accurately present to external entities corporate financial position, operating results, cash flows, and financial strength.

B BUS 211 Principles of Managerial Accounting (5) Uses accounting information for business planning and control purposes. Focuses on internal use of accounting information and topics include cost behavior, product costing, budgeting, performance management, and responsibility accounting. Proficiency in identifying relevant information from operational and strategic decisions. Prerequisite: B BUS 210.

B BUS 215 Introduction to Business Statistics (5) QSR Introduces descriptive statistics, probability concepts, and statistical inference emphasizing statistical applications useful in decision making and research in the social sciences. Topics include exploratory data analysis, correlation, sampling theory, estimation, hypothesis testing, and simple regression analysis. Concepts are illustrated through case problems in sociology, psychology, consumer economics, and business.

B BUS 300 Management of Organizations (4) An introduction to management from a macro perspective. Includes leading management theories, recent case studies of world-class organizations, new research finding, and presentations by leading business executives. Co-requisite: B BSKL 300; may not be repeated.

B BUS 305 Managerial Communication (4) Focuses on the importance of written and oral communication for managerial success. Involves hands-on individual and group experience in preparing business documents and delivering business presentations. Co-requisite: B BSKL 305.

B BUS 307 Business Writing (5) Provides theoretical and practical approaches to being a better ethical writer to prepare students to be more successful in business or other organizations.

B BUS 310 Managerial Economics (5) Applies economic principles and quantitative methods to improve managerial decision making. Topics covered include: demand analysis, cost analysis, forecasting, asset valuation, information economics, government regulation of business. Prerequisite: may not be repeated.

B BUS 320 Marketing Management (5) Focuses on designing tools, concepts, and strategies for problem solving in marketing management. Prerequisite: may not be repeated.

B BUS 325 Information Management and Analysis (5) Study of the methods of gathering, structuring, analyzing and applying information in business organizations. A survey of the changes in organizations resulting from new knowledge technologies provides a framework for intensive study of a variety of tools used to gather, structure, analyze or apply information. Prerequisite: may not be repeated.

B BUS 340 Operations and Project Management (5) Examines service and manufacturing processes that deliver value to customers, introduces concepts and tools for critical analysis, emphasizes operating priorities (quality, cost, delivery, flexibility, social responsibility) and the underlying factors that support them. Prerequisite: minimum grade of 1.7 in B BUS 310; may not be repeated.

B BUS 350 Business Finance (5) Focuses on understanding the sources, uses, costs, and control of funds in business organizations. Issues include the internal management of working capital, sources of capital, financing new ventures, capital budgeting, and financing the growth of businesses. Prerequisite: minimum grade of 1.7 in B BUS 310; may not be repeated.

B BUS 361 Intermediate Accounting I (5) Examines the accounting framework and principles used to determine the income and the financial position of a firm. Develops a conceptual and applied understanding of the preparation of financial statements and processing of transactions related to the current asset accounts. Prerequisite: may not be repeated.

B BUS 362 Intermediate Accounting II (5) Analyzes current accounting theory and practices used in preparing and presenting financial statements. Focuses on the accounting treatment of transactions concerning investments; operational assets; and current and long-term liabilities. Prerequisite: minimum grade of 1.7 in B BUS 361; may not be repeated.

B BUS 363 Intermediate Accounting III (5) Analyzes current accounting theory and practices used in preparing and presenting financial statements. Focuses on the accounting treatment of transactions that apply to stockholders’ equity; income taxes; accounting changes and error corrections; retirement plans; and the statement of cash flows. Prerequisite: minimum grade of 1.7 B BUS 362; may not be repeated.

B BUS 366 Financial Accounting II (5) Examines current accounting theory and practices used in preparing and presenting financial statements. Focuses on the accounting treatment of transactions concerning investments; operational assets; and current and long-term liabilities. Prerequisite: minimum grade of 1.7 B BUS 365; may not be repeated.

B BUS 373 Cost Accounting (5) Examines the use of accounting and operational data for internal planning and control purposes. Focus includes job-order and process costing, activity based budgeting, profit planning, responsibility accounting, standard costing and variance analysis, transfer pricing and performance evaluation systems. Prerequisite: minimum grade of 1.7 in B BUS 361; may not be repeated.

B BUS 401 Work Motivation and Performance (5) Provides students with an understanding of the factors influencing individual motivation and performance in work environments. Includes employee attitudes and personality, goal setting and reward systems, communications, power, and conflict management, job design, and organizational culture and change.

B BUS 402 Managing Work Teams (5) Provides students with an understanding of the factors influencing team effectiveness in work environments. Includes team process, decision making, conflict resolution, team creativity, external dynamics, and emerging issues in managing teams.

B BUS 411 Auditing Theory and Practice (5) Provides intensive exposure to the attestation functions in accounting, including provisions of the Sarbanes-Oxley legislation. Analyzes the environment, process, and report of the public auditor. Discusses theory and practice related to the auditing environment, including general audit technology, programmatic applications and reporting obligations. Prerequisite: minimum grade of 1.7 in B BUS 362; may not be repeated.
B BUS 412 Advanced Business Law (5) In-depth study of legal resolutions including courts, alternative dispute resolution and ethics; creditors' rights and bankruptcy; agency and employment; corporations and securities; small business and owners limited liabilities; and government regulation of business. Prerequisite: minimum grade of 2.0 in B CUSP 202.

B BUS 421 Consumer Marketing (5) Examines the process by which consumer goods and services are brought to the market. Analyzing existing markets to identify problems and opportunities, developing and modifying products, establishing and managing distribution, setting prices and undertaking promotional efforts, especially advertising. Emphasizes mass marketing and end users. Prerequisite: minimum grade of 1.7 in B BUS 320.

B BUS 423 Market Intelligence (5) Focuses on the major methodologies of marketing research. Deals with the entire research process, from problem definition, research design, questionnaire construction, and sample selection to data collection and analysis. Introduction to various standard and state-of-the-art data analyses techniques and software packages. Prerequisite: minimum grade of 1.7 in B BUS 320; may not be repeated.

B BUS 426 International Marketing (5) Integrated study of institutions, factors, and trends that have a bearing on global business operations and strategy. Utilizes lectures, research, case studies, guest speakers, and extensive practical application of modern marketing principles. Special emphasis on developing a marketing plan for the export of product or service. Prerequisite: minimum grade of 1.7 in B BUS 320.

B BUS 427 Entrepreneurial Marketing (5) Explores how marketing and entrepreneurship affect and are affected by one another. Examines role of marketing in entrepreneurial ventures, and the role of entrepreneurship in marketing efforts for all firms. Prerequisite: minimum grade of 1.7 in B BUS 320.

B BUS 429 Special Topics in Marketing (5, max. 20) Topics of current interest to faculty and students. Offered when allowed by faculty availability and sufficient student interest. Prerequisite: minimum grade of 1.7 in B BUS 320.

B BUS 431 Electronic Marketing (5) Critically analyze new marketing models; study how firms can effectively leverage new technology and maximize long-term profits. Includes: web marketing strategy, e-commerce issues, channel issues, pricing models, advertising and promotion models and business plans. Prerequisite: minimum grade of 1.7 in B BUS 320.

B BUS 435 Accounting Information Systems (5) Provides in-depth coverage of accounting information systems from the perspectives of accounting transition cycles. Examines systems processes, flowcharting and internal controls relevant to each transaction processing cycle. Discusses various technologies underlying accounting information systems, including stand-alone and integrated enterprise application. Prerequisite: minimum grade of 1.7 in B BUS 361; may not be repeated.

B BUS 438 Marketing Management Laboratory (5) Capstone marketing course. Covers the development and implementation of tactical as well as the strategic aspects of marketing decisions. Integrates marketing concepts from other marketing classes to formulate coherent marketing decisions. Topics include multi-product, multi-market businesses, and challenges inherent in developing and implementing marketing decisions in a complex environment. Analysis of markets, businesses and competitive situations in order to make sound decisions. Prerequisite: minimum grade of 1.7 in B BUS 320; a minimum grade of 1.7 in either B BUS 421, B BUS 423, B BUS 424, B BUS 425, B BUS 426, B BUS 427, B BUS 429, or B BUS 431; may not be repeated.

B BUS 441 Business Project Management (5) In-depth coverage of skills that prepare students for rules as business project leaders and team members. Topics include project selection, risk, definition, stakeholder analysis, communication plans, scheduling, software, resource allocation, monitoring, post-project assessment. Emphasis on critical thinking and analysis. Prerequisite: minimum grade of 1.7 in B BUS 340.

B BUS 443 Entrepreneurship Seminar (5) Creates or works within a new venture. New venture situations include for-profit and non-profit companies and launching new products/services within existing companies. Develops a business plan. Offered: jointly with CSS 473.

B BUS 444 Product Development Lab (5) Includes a technology project and product development within the dynamic of time-pressured competition. Focuses on systematically improving products to beat competition and win the customer. Topics include benchmarking, competitive intelligence, and managing small group product development. Offered: jointly with CSS 474.

B BUS 445 Merchandise Acquisition (5) Examines retail companies' merchandise acquisition practices and financial structure. Includes retail inventory management, processes of planning, and negotiating for the buying merchandise. Includes participation in a buying simulation. Prerequisite: B BUS 300; may not be repeated.

B BUS 446 Strategic Retail Promotion (5) Examines key driver, strategies, and methods necessary to succeed in retail applying advanced promotion methods to achieve competitive advantage through innovative approaches. Prerequisite: B BUS 300; B BUS 320; may not be repeated.

B BUS 447 Retail Operations and Supply Chain Management (5) Examines the fundamental of operations management in a retail setting and the operations issues faced by firms in the retail environment including blend strategic and design decision. Prerequisite: B BUS 300; may not be repeated.

B BUS 448 Retail Technology and Leadership (5) Provides exposure to new technologies in the retail industry and creates an understanding of how they can drive sales, increase efficiencies, and improve the customer experience. Includes a class project designed to integrate foundation of learning form the three previous retail course. Prerequisite: B BUS 300; B BUS 445; B BUS 446; B BUS 447; may not be repeated.

B BUS 449 Accounting Practices in Not-for-Profit Organizations (5) Examines accounting and reporting practices in governments, universities, hospitals and charitable foundations. Focuses on fund accounting fundamentals, followed by a review of current challenges in budgeting, auditing, and reporting to multiple stakeholders. Prerequisite: minimum grade of 1.7 in B BUS 363.

B BUS 450 Federal Income Taxation (5) Examines federal income tax principles that apply to gross incomes, deductions, property transactions and compensation. Equip students with the tools to conduct basic tax research and planning. Focuses primarily on the taxation of individuals, with some exposure to corporate and partnership environments. Prerequisite: minimum grade of 1.7 in B BUS 361; may not be repeated.

B BUS 451 Financial Policy and Practice (5) Emphasizes major current theories and practices in the field of financial management. Topics include financial ratio analysis; break-even analysis; cash, marketable securities, inventory, and accounts receivable management models; dividend policy; short-term and long-term financing decisions; and international finance. Prerequisite: minimum grade of 1.7 in B BUS 350; may not be repeated.

B BUS 453 Financial Institutions and Markets (5) Role of banks and non-bank financial institutions in the financial system; asset choices of banks and non-bank financial institutions; problems in the management
of financial institutions with emphasis on commercial banks. Prerequisite: minimum grade of 1.7 in B BUS 350; may not be repeated.

B BUS 454 Investments (5) Introduction to the nature, problems, and process of evaluating particular securities and portfolio construction and administration. Special attention is directed to the risk and rate of return aspects of particular securities portfolios; and total wealth. Prerequisite: minimum grade of 1.7 in B BUS 350; may not be repeated.

B BUS 455 Futures and Options (5) Introduction to the field of derivative securities, focusing in particular on futures, forwards, and options. Pays special attention to the use of derivative securities in the management of risk and the general principles underlying the pricing of derivative securities. Prerequisite: minimum grade of 1.7 in B BUS 454.

B BUS 456 Entrepreneurial Finance (5) Examines financial challenges common to new ventures, and discusses each participate in the venture arena. Explores alternative sources of private equity for new ventures. Prerequisite: minimum grade of 1.7 in B BUS 350.

B BUS 459 Special Topic in Finance (5) Study and research topics of current concern to faculty and to students pursuing the finance concentration. Prerequisite: minimum grade of 1.7 in B BUS 350.

B BUS 460 Sustainable Business (5) Explores the critical challenges facing business when becoming more environmentally sustainable without forgoing traditional indicators of success. Topics involve elements of strategy, marketing, manufacturing and technology, finance, organization theory, and accounting and draw from current major concerns related to environment and sustainability, such as climate, toxins, and food.

B BUS 461 Business, Government, and Society (5) Covers capitalism and its critics; corporate social responsibility and business ethics; government and politics; regulation business; stakeholders and interest groups; the role of technology and the future of business. Prerequisite: minimum grade of 1.7 in B BUS 300; B BSKL 300; minimum grade of 1.7 in B BUS 310.

B BUS 462 Negotiations and Conflict Management (5) Explores creative, integrative approaches to conflict resolution. Bargaining games, role-plays, cases, issues in conflict management, interpersonal influence processes, ethical implications of bargaining problems and personal negotiating styles. Prerequisite: minimum grade of 1.7 in B BUS 300; B BSKL 300; minimum grade of 1.7 in B BUS 320.

B BUS 463 Advanced Financial Accounting (5) Examines the reporting of earnings and changes in stockholder equity, consolidation of financial statements for subsidiaries, and accounting for foreign currency gains and losses. Evaluates current methods used to report accounting errors and the effects of changes in accounting principles. Prerequisite: minimum grade of 1.7 in B BUS 362.

B BUS 464 New Product Marketing (5) Focuses on the process of New Product Marketing. Examines the contemporary practices of market development as it complements new product development. Emphasis given to understanding customer value, its measurement and relationship to new product design. Practical exposure through focused homework, student projects, and case studies. Prerequisite: minimum grade of 1.7 in B BUS 320.

B BUS 465 Applied Financial Accounting (5) Emphasizes what analysts and managers need to know about the issues and procedures involved in the preparation of the financial statement, rather than on the actual preparation of the statements. Prepares students for professional certification as management accountants or financial analysts. Prerequisite: minimum grade of 1.7 in B BUS 350.

B BUS 466 Applied Managerial Accounting (5) Examines the principles of management accounting and the tools and techniques used to prepare and disseminate management accounting reports. Prepares students for professional certification as management accountants or financial analysts. Prerequisite: minimum grade of 1.7 in B BUS 350.

B BUS 467 Advanced Taxation (5) Examines issues of taxation for entities other than individuals, including corporation, subchapter S corporations, partnerships, estates, and trusts. Includes corporate distributions, liquidations, and reorganizations. Prerequisite: minimum grade of 1.7 in B BUS 450.

B BUS 470 Business Policy and Strategic Management (5) Capstone course. Focuses on identification, analysis and resolution of managerial problems; creation and implementation of management policies in business organizations; and revision of policies over time. Prerequisite: minimum grade of 1.7 in B BUS 300; minimum grade of 1.7 in B BUS 307; B BSKL 300; minimum grade of 1.7 in B BUS 320; minimum grade of 1.7 in B BUS 340; minimum grade of 1.7 in B BUS 350; may not be repeated.

B BUS 471 Entrepreneurial Management (5) Focuses on the processes of entrepreneurship within an organization, including how to create products and services which add value to consumers, how to start and nurture a new business venture, and how to develop and sustain innovation within existing organizations.

B BUS 472 Managing Employees (5) Focuses on how companies are succeeding through innovative human-resource practices and on the steps that managers can take to overcome barriers to change in order to meet the challenges of today and the future. Prerequisite: minimum grade of 1.7 in B BUS 300; B BSKL 300; may not be repeated.

B BUS 473 Leadership and Decision Making (5) The manager is seen as a business leader and decision-maker. Covers various individual and group-level decision-making models. Prerequisite: minimum grade of 1.7 in B BUS 300; B BSKL 300; may not be repeated.

B BUS 475 Managing Innovation (5) Examines topics such as the nature of innovation, technology strategy, organizational and technical capabilities, and new product development processes. Course requirements typically include readings, case analyses, classroom discussion, and research project(s). Open to Business or CSS students having senior status. Prerequisite: may not be repeated.

B BUS 476 New Technology and Future Markets (5) Examines the business dynamics of technological revolutions. The primary objective is to help managers critically analyze the potential impacts of upcoming "leading edge" technologies on their industry sector. Students engage in forecasting a high technology sector. Prerequisite: minimum grade of 1.7 in B BUS 300; B BSKL 300; minimum grade of 1.7 in B BUS 320; minimum grade of 1.7 in B BUS 350; may not be repeated.

B BUS 477 Human Resource Management (5) Provides an introduction to the strategic role of the Human Resource function within modern organizations. Examines HR management practices associated with individual and organizational effectiveness, employee satisfaction and motivation; develops an understanding of how general managers can apply these concepts in dealing with their employees. Prerequisite: minimum grade of 1.7 in B BUS 300; B BSKL 300.

B BUS 479 Special Topics in Management (5, max. 20) Topics of current interest to faculty and students. Offered when allowed by faculty availability and sufficient student interest. Prerequisite: minimum grade of 1.7 in B BUS 300; B BSKL 300.

B BUS 480 Global Environment of Business (5) Focuses on the major changes and issues facing businesses and managers operating in an increasingly global environment. Emphasizes topics such as trade policy,
accelerating advances in technology, the changing nature of the work force, and societal expectations of business. Problems and issues from the perspective of directing the entire business enterprise. Prerequisite: minimum grade of 1.7 in B BUS 300; minimum grade of 1.7 in B BUS 307; B BSKL 300; minimum grade of 1.7 in B BUS 320; minimum grade of 1.7 in B BUS 340; minimum grade of 1.7 in B BUS 350; may not be repeated.

B BUS 489 Digital Business Lab (5) MIS concentration capstone. Provides a broad understanding of the impact of information technology on the corporation. Uses various learning tools such as case studies, portfolios, site visits, visiting speakers, and term papers. Prerequisite: minimum grade of 1.7 in B BUS 330; B BSKL 300; minimum grade of 1.7 in CSS 341; minimum grade of 1.7 in CSS 360; may not be repeated.

B BUS 490 Special Topics in Business (5, max. 20) Topics of current interest to faculty and students. Offered when allowed by faculty availability and sufficient student interest. Prerequisite: minimum grade of 1.7 in B BUS 300; B BSKL 300; minimum grade of 1.7 in B BUS 310.

B BUS 491 Business Consulting (5) Applies principles and methods of consulting to organizations. Teams work as consultants for local businesses, applying management theory and concepts to develop strategic and tactical solutions to client-driven problems involving multiple functions.

B BUS 497 Guided Internship (1-10, max. 10) A significant research project planned and carried out by the student under the direction of one or more faculty.

B BUS 498 Directed Readings (3-5, max. 15) A significant research project planned and carried out by the student under the direction of two or more faculty.

B BUS 499 Undergraduate Research (1-5, max. 15) Individual advanced research on topics related to business issues and conducted under the direction of one or more instructors.

B BUS 500 Quantitative Business Methods (2) Reviews fundamental concepts of differential calculus, descriptive statistics and probability theory, emphasizing applications most useful in modeling business problems. Topics include differentiation and optimization, descriptive statistics, measures of association, probability concepts, decision analysis and discrete and continuous probability distributions. Concepts are illustrated through case problems in business. Credit/no-credit only.

B BUS 501 Leadership, Team Process and Decision Making: A Workshop (4) Examines factors associated with leader and team effectiveness using high- and low-element exercises and lecture/discussion. Introduces management analysis and decision-making using the case study method. Three-day off-campus retreat followed by two evening class meetings on campus. Credit/no-credit only.

B BUS 502 Statistics for Business (4) Reviews descriptive statistics, exploratory data, and probability distributions. Studies the theory and methods of statistical inference, emphasizing those applications most useful in modeling business problems. Topics include sampling theory, estimation, hypothesis testing, linear regression, analysis of variance, and several advanced applications of the general linear model. Offered: A.

B BUS 503 Financial Reporting and Analysis (4) Read, interpret, and analyze company financial reports. Understand the procedural aspects of the preparation of financial statements. Acquire a working knowledge of generally accepted accounting principles and financial reporting standards. Understand the ambiguities that arise in preparing financial statements and the role of good business judgment in resolving these ambiguities.

B BUS 504 Microeconomics for Business (4) Considers some of the most important economic aspects of a business enterprise including demand and cost analysis, pricing strategy (including auctions), and the economics of information. Highlights the usefulness of game theory. Offered: W.

B BUS 505 Financial Management (4) Provides an introduction to the models used in the investment and financing decisions of a firm. Topics include: valuation of stocks and bonds; measurement of risk and return; project evaluation and analysis; financial leverage and optimal capital structure, and optimal dividend policy. Prerequisite: B BUS 503; B BUS 504. Offered: Sp.

B BUS 506 Marketing Management (4) Facilitates the development of a customer orientation and explores the use of the marketing mix of product, price, place and promotion to create, communicate and deliver value to targeted customer segments. Explains how marketing strategy is developed, implemented, and controlled in the marketplace. Prerequisite: B BUS 504. Offered: Sp.

B BUS 507 Global Business (4) Synthesizes and extends perspective on global business environment. Demonstrates how choices related to organization and strategy (such as outsourcing and diversification) require an understanding of trade theory and policy, differences in national cultures, and international institutions. Prerequisite: B BUS 504; B BUS 505; B BUS 506. Offered: Sp.

B BUS 508 Business Law and Ethics (4) Provides an understanding of the impact of legal considerations on managerial decision making. Topics include anti-trust law, intellectual property law, consumer protection and investor protection. Prerequisite: B BUS 525. Offered: W.

B BUS 509 Operations Management (4) Examines the operations function in service and manufacturing organizations from a managerial perspective. Key topics include strategic and design decisions relating to operations and processes, quality management, lean systems, inventory control and supply chain management. Uses blend of theory, cases, analytical techniques, and business vignettes. Prerequisite: B BUS 505; B BUS 506 Offered: A.

B BUS 510 Managing Organizational Effectiveness (4) Explores intangible assets and “meso” issues that underpin organizational effectiveness. Topics include organizational phenomena (cultures, structures, routines, capabilities, life cycles), intellectual capital, and knowledge management (creating, maintaining, and diffusing knowledge). Projects require application of best practices to personally relevant situations. Offered: Sp.

B BUS 512 Strategic Management (4) Focuses on major top management decisions, emphasizing how competitive advantage is created and maintained through planning and strategy. Using readings and cases, demonstrates importance in diverse industries of external environments (customers, competitors, science and technology, laws), organizational phenomena (structure, processes, decision making), and an international perspective. Offered: A.

B BUS 514 Business Communications for Leaders (4) Focuses on making written and spoken communications effective and authentic, using case studies of several communication challenges that occur in organizations. Teaches how successful communication is both intentional and strategic and how to formulate communication goals, understand your audience, and use the correct approach in each situation. Offered: S.

B BUS 521 Enterprise IT Management (4) Focuses on critical issues for aligning information technology resources with the enterprise. Demonstrates the role of company mission and objectives on decisions regarding project approval and implementation. Topics include: project due diligence; technology process management; technology agility;
enterprise system implementation, legal and ethical aspects, and contemporary issues. Offered: S.

B BUS 522 Organizational Behavior (4) Improves student’s effectiveness as managers and leaders. Introduces frameworks for understanding organizational processes. Includes a one-day, overnight retreat to help second-year students to reflect on their experiences, and examine progress toward their development goals to enhance success during the second year. Prerequisite: B BUS 501. Offered: A.

B BUS 524 Creativity and Innovation Management (4) Provides senior management perspective and analytical frameworks for managing creativity and innovation to achieve strategic goals and objectives. Topics include the language of innovation, use of lateral thinking and group collaboration techniques to create breakthrough new ideas, and building innovation eco-systems through integration of strategy, process, organization, and technologies.

B BUS 525 Technology and Innovation Management (4) Provides a general manager’s perspective on the management of innovation. Focuses on conceptual frameworks and analytical tools for managing innovation throughout the firm. Topics include the nature of innovation, how organizational and technical capabilities affect innovation, product/process development systems, and technology implementation. Offered: W.

B BUS 526 Entrepreneurship Practicum (4) Focuses on providing immersive real-life experiences that require application of fundamental business principles. Students in the “new venture” track make a trial presentation to practitioners at the quarter’s end. Students in the “live case” track meet pre-established and agreed-upon goals. Prerequisite: B BUS 521. Offered: W.

B BUS 527 Entrepreneurial Marketing (4) Explores how marketing and entrepreneurship affect and are affected by one another. Examines role of marketing in entrepreneurial ventures, and the role of entrepreneurship in marketing efforts for all firms.

B BUS 528 New Product Marketing (4) Examines strategies and state-of-the-art analytical methods that support profitable new product introductions.

B BUS 531 Leadership and Social Responsibility (4) Focuses on leadership and managerial effectiveness. Builds upon students’ knowledge of factors which influence leadership behavior and the critical personal and interpersonal associated with leadership. At a two-day, overnight retreat, students engage in an organizational simulation and receive feedback from faculty and mentors. Prerequisite: B BUS 501. Offered: A.

B BUS 532 Marketing Research (6) Focuses on the major methodologies of marketing research. Deals with the entire research process, from problem definition, research design, questionnaire construction, and sample selection to data collection and analysis. Introduces various standard and state-of-the-art data analyses techniques and software packages. Prerequisite: B BUS 506. Offered: A.

B BUS 533 Advanced Leadership Models (4) Provides an advanced overview of leadership theory and practice and helps students understand and develop their own leadership potential. Relies on a variety of approaches including readings, cases, simulations, guest speakers, activities, discussion, assessments, lectures, and reflection.

B BUS 534 Human Resource Management (4) Provides an introduction to the strategic role of the human resource function within modern organizations; examines human resource management practices associated with individual and organizational effectiveness, employee satisfaction, and motivation; and develops an understanding of how general managers can apply these concepts in managing people within their organizations.

B BUS 539 Market Intelligence (4) Focuses on understanding design, data analysis techniques, and interpretation of market segmentation studies, customer satisfaction studies, user experience studies, product positioning research, and recommender system. Students have hands-on experience designing research projects and deriving marketing insights from various data analysis exercise and projects. Prerequisite: B BUS 502.

B BUS 541 Advanced Corporate Finance (4) Reviews basic financial concepts and introduces more advanced financial tools. Uses case analysis to confront the complexities of real-world financial situations. Students work to identify relevant issues necessary to address the financial problems raised in cases. Prerequisite: B BUS 505. Offered: S.

B BUS 542 Customer Satisfaction Models (5) Examines the role of customer satisfaction in a market economy; how information on customer satisfaction can be used to understand the economy, to help investment decisions, and to improve business management. Theoretical objectives include broadening the pre-purchase and post-purchase decision-making focus into the consumption and post-consumption areas. Offered: S.

B BUS 543 Investments (4) Examines various types of investment securities and derivatives, the mechanics of security markets, the relationship between risk and return, and the distinction between fundamental and technical analysis. Prerequisite: B BUS 505. Offered: S.

B BUS 544 Negotiations (4) Examines the theory and processes of negotiation. Includes a broad spectrum of negotiation problems.

B BUS 546 Seminar on Global Economic Issues (4) Analyzes economic structures and trends in nations across the globe and examines their implications for business decision-making. Examines how these economies are influenced by political, legal, regulatory, and technological issues in a global context. Offered: S.

B BUS 549 Management Consulting (4) A project-based applied learning practicum focused on introducing students to the field of management consulting. Designed to serve an integrative role, bringing together the functional disciplines and components of the MBA curriculum in a summative project-based consulting experience.

B BUS 550 Global Commercialization of Sustainable Technologies (4) Students work on faculty-supervised interdisciplinary teams (with students from business, sciences/engineering, and public policy) to develop business plans for commercializing environmentally friendly technologies around the world. The projects involve collaborating with EPA’s Environmental Technology Commercialization Center, with Battelle Labs, and with Puget Sound businesses. Offered: jointly with ENVIR 550.

B BUS 556 Entrepreneurial Finance (4) Examines financial challenges common to new ventures, and discusses each participant in the venture arena. Explores alternative sources of private equity for new ventures.

B BUS 558 Corporate Financial Reporting (4) Using critical thinking skills, students develop professional judgment in evaluating corporate general purpose financial reporting. Through case studies, readings, and exercises, students build knowledge and skills for creating and using financial reports, particularly around long-term business arrangements. Students learn to document and clearly communicate their analysis.

B BUS 590 Special Topics for MBA Study (1-4, max. 32) Topics of interest Business faculty and students. Offered when allowed by faculty availability and sufficient student interest.
B BUS 591 Global Business Study Tour ([1-10], max. 10) Study abroad tour that cultivates a rich understanding of business theory and a genuine global perspective. Develops an appreciation of national difference in culture and economic, legal, and political systems that affect business strategy, operations, and performance.

B BUS 600 Independent Study or Research (1-4) Independent study or research on business topics conducted under the direction of one or more instructors. Offered: AWSpS.

B BUS 601 MBA Internship (4) Provides a circumscribed practical experience at an organization under the supervision of a faculty member. Credit/no-credit only. Offered: AWSpS.

Business Administration Accounting

B ACCT 501 Accounting Theory (4) Focuses on the basic market paradigm that governs accounting and accounting institutions. Uses concepts such as agency theory, permanent income, and Hicksian income. Explores issues such as the use of book value and earnings as alternative anchors and the need for disclosure versus accounting.

B ACCT 502 Seminar on Financial Accounting (4) Introduces the basic knowledge derived from financial accounting research. Starting with the efficient market paradigm, students are exposed to the concept of value relevant information of market participants and the role of accounting information. Case studies/journal articles examine the current dilemmas/controversies in financial accounting.

B ACCT 503 Corporate Financial Reporting (4) Combines ideas and tools from economics, statistics, decisions theory, and finance with traditional accounting concepts such as faithful representation to develop a general framework for general purpose financial reporting.

B ACCT 504 Advanced Managerial Accounting (4) Exposes students to the user’s perspective of managerial accounting information, incorporating uncertainty and fully exploiting the interrelationship between cost determination, performance evaluation, and economic decision making. Focuses on the underlying theory of cost allocation as an applied mechanism design and its role in the world of accounting.

B ACCT 505 Financial Statement Analysis (4) Students analyze actual financial statements with a view to valuing a firm form the valuation fundamentals and comparing their findings to actual market valuations. Stretches students’ ability to apply knowledge and skills developed in prior courses to perform challenging real-world tasks. Prerequisite: B ACCT 501; B ACCT 503.

B ACCT 506 Seminar on Strategic Cost Management (4) Aims to introduce students to how cost information can be used to create and support business strategy and how the existing cost accounting systems need to be adapted for strategic use. Prerequisite: B ACCT 504.

Business Skills

B BSKL 200 Preparing for the Business World (5) Examines professionalism, productivity, communication, networking, and career management. Develops skills for business case analysis, project planning and management, public speaking, writing, team work, and introspection. Credit/no-credit only.

B BSKL 300 Business Team Skills (1) Collins, Kelley, Walters Introduces students to the characteristics of effective teams, team processes, stages of group development, leadership behaviors, meeting management, and team performance diagnosis. Must be taken concurrently with B BUS 300, Management of Organizations. Credit/no-credit only. Offered: AW.

B BSKL 305 Business Research Skills (1) Kelly, Miller Familiarizes students with analytical reasoning and research methods, the case method of teaching, and group writing skills. Provides students with the tools necessary to succeed in the UWB Business Program. Must be taken concurrently with B BUS 305, Managerial Communication. Credit/no-credit only. Offered: AW.

Eastside Learning Center - Business

ELCBUS 210 Principles of Financial Accounting (5) Preparation and use of accounting reports with primary focus on uses of accounting for external reporting. Understand financial statements and prepare statements that accurately present to external entities corporate financial position, operating results, cash flows, and financial strength.

ELCBUS 211 Principles of Managerial Accounting (5) Uses accounting information for business planning and control purposes. Focuses on internal use of accounting information and topics include cost behavior, product costing, budgeting, performance management, and responsibility accounting. Develops proficiency in identifying the relevant information for making operational and strategic decisions. Prerequisite: either ELCBUS 210 or B BUS 210.

ELCBUS 215 Introduction to Business Statistics (5) QSR Introduces descriptive statistics, probability concepts, and statistical inference emphasizing statistical applications useful in decision making and research in the social sciences. Topics include exploratory data analysis, correlation sampling theory, estimation, hypothesis testing, and simple regression analysis. Concepts are illustrated through case problems in sociology, psychology, consumer economics, and business.

ELCBUS 300 Management of Organizations (5) Introduces management from a macro perspective. Includes leading management theories, recent case studies of world-class organizations, new research finding, and presentations by leading business executives.

ELCBUS 301 Business Statistics (5) QSR Examines statistical methods useful in modeling business problems. Topics include exploratory data analysis and the visual representation of data, probability distributions, statistical inference (sampling theory, estimation, hypothesis testing), and multiple regression models. Concepts illustrated through case problems and the intensive use of statistical software.

ELCBUS 305 Managerial Communication (1-2, max. 5) Focuses on the importance of topics such as written and oral communication for managerial success. Involves hands-on individual and group experience in preparing business documents and delivering business presentations.

ELCBUS 310 Managerial Economics (5) Applies economics principles and quantitative methods to improve managerial decision making. Topics include demand analysis, cost analysis, forecasting, asset valuation, information economics, and government regulation of business. Prerequisite: minimum grade of 1.7 in ELCBUS 301.

ELCBUS 320 Marketing Management (5) Focuses on designing tools, concepts, and strategies for problem solving in marketing management. Prerequisite: minimum grade of 1.7 in ELCBUS 301.

ELCBUS 330 Information Management and Analysis (5) Examines core technologies vital to enterprise information technology management. Topics include architectural considerations in high tech enterprises, internet tools, and enterprise resource planning systems.
ELCBUS 340 Operations and Project Management (5) Examines service and manufacturing processes that deliver value to customers, introduces concepts and tools for critical analysis, and emphasizes operating priorities (quality, cost, delivery, flexibility, social responsibility) including the underlying factors that support them. Prerequisite: minimum grade of 1.7 in ELCBUS 310.

ELCBUS 350 Business Finance (5) Focuses on understanding the sources, uses, costs, and control of funds in business organizations. Issues include the internal management of working capital, sources of capital, financing new ventures, capital budgeting, and financing the growth of businesses. Prerequisite: minimum grade of 1.7 in ELCBUS 310.

ELCBUS 380 Introduction to Organizational Behavior (5) Examines frameworks and models for understanding the factors that influence the effectiveness of individuals, teams, and organizations. Topics include employee motivation, leadership, team dynamics, communication, and organizational culture and change.

ELCBUS 382 Business, Government, and Society (5) Examines the relationship of business to society for the perspective of the business manager. Considers business’ relationships with both commercial and non-commercial stakeholders. Topics including business ethics, influence of business and government on each other, and relative roles of the two in achieving society’s economic, social, and environmental goals.

ELCBUS 400 Business Project Management (5) Provides in-depth coverage of skills that prepare students for rules as business project leaders and team members. Topics include project selection, risk, definition, stakeholder analysis, communication plans, scheduling, software, resource allocation, monitoring, post-project assessment. Emphasizes critical thinking and analysis. Prerequisite: minimum grade of 1.7 in ELCBUS 340.

ELCBUS 401 Electronic Marketing (5) Critically analyze new marketing models; study how firms can effectively leverage new technology and maximize long-term profits. Includes: web marketing strategy, e-commerce issues, channel issues, pricing models, advertising and promotion models, and business plans. Equivalent to B BUS 431. Prerequisite: minimum grade of 1.7 in ELCBUS 320.

ELCBUS 402 Leadership and Decision Making (5) The manager is seen as a business leader and decision-maker. Covers various individual and group-level decision-making models. Prerequisite: minimum grade of 1.7 in ELCBUS 300.

ELCBUS 403 Negotiations and Conflict Management (5) Explores creative, integrative approaches to conflict resolution. Includes bargaining games, role-plays, cases, issues in conflict management, interpersonal influence processes, ethical implications of bargaining problems, and persona negotiating styles. Equivalent to B BUS 462. Prerequisite: minimum grade of 1.7 in both ELCBUS 300 and ELCBUS 320.

ELCBUS 441 Essentials of Venturing (5) Provides an overview of the new venture creation process including business formation, growth, and innovation. Introduces forms of entrepreneurship, methods of acquiring human capital, the idea generation processes, networking, intellectual property protection, as well as types and sources of funding.

ELCBUS 442 New Venture Ideas (5) Focuses on the basics of new product development and marketing. Provides an understanding of the importance of the integration of design, manufacturing, and marketing processes. Prerequisite: minimum grade of 1.7 in ELCBUS 441.

ELCBUS 443 Venture Feasibility Analysis (5) Focuses on methods to evaluate and obtain control over opportunities that can be exploited by starting new companies. Prerequisite: ELCBUS 442, which may be taken concurrently.

ELCBUS 444 Venture Start-up, Management and Growth (5) Focuses on the opportunity and challenge of managing and growing of start-ups. Emphasizes understanding of the processes managing growth and effectively dealing with the growing pains. Prerequisite: minimum grade of 1.7 on ELCBUS 443.

ELCBUS 451 Financial Policy and Practice (5) Emphasizes major current theories and practices in the field of financial management. Topics include financial ratio analysis; break-even analysis; cash; marketable securities, inventory, and accounts receivable management models; dividend policy; short-term and long-term financing decisions; and international finance. Prerequisite: minimum grade of 1.7 in ELCBUS 350.

ELCBUS 453 Financial Institutions and Markets (5) Role of banks and non-bank financial institutions in the financial system; asset choices of banks and non-bank financial institutions; problems in the management of financial institutions with emphasis on commercial banks. Prerequisite: minimum grade of 1.7 in ELCBUS 350.

ELCBUS 454 Investments (5) Introduction to the nature, problems, and process of evaluating particular securities and portfolio construction and administration. Special attention is directed to the risk and rate of return aspects of particular securities portfolios; and total wealth. Prerequisite: minimum grade of 1.7 in ELCBUS 350.

ELCBUS 455 Futures and Options (5) Introduction to the field of derivative securities, focusing in particular on futures, forwards, and options. Pays special attention to the use of derivative securities in the management of risk and the general principles underlying the pricing of derivative securities. Prerequisite: minimum grade of 1.7 in ELCBUS 454.

ELCBUS 461 International Environment of Business (5) Focuses on major changes and issues facing businesses and managers operating in an increasingly global environment. Emphasizes topics such as trade policy, technological advances, the changing nature of the work force, and societal expectations of business. Prerequisite: minimum grade of 1.7 in ELCBUS 310.

ELCBUS 462 International Marketing (5) Integrated study of institutions, factors, and trends that have a bearing on global business operations and strategy. Utilizes lectures, research, case studies, guest speakers, and extensive practical application of modern marketing principles. Special emphasis on developing a marketing plan for the export of product or service. Prerequisite: ELCBUS 320.

ELCBUS 463 International Finance and Trade (5) Covers key topics in financial management including management of foreign exchange exposure, foreign direct investment decisions, multinational capital budgeting, balance of payments, determination of exchange rates, and the role and tools of banks in international trade. Prerequisite: minimum grade of 1.7 in ELCBUS 350.

ELCBUS 464 History and Globalization (5) Examines the process of globalization from a historical perspective and applies a systems theory framework based on the insights of modern science to enhance understanding of the process.

ELCBUS 470 Business Policy and Strategic Management (5) Focuses on identification, analysis, and resolution of managerial problems; creation and implementation of management policies in business organizations; and revision of policies over time. Prerequisite: a minimum grade of 1.7 in each of ELCBUS 300; ELCBUS 320; ELCBUS 340; and ELCBUS 350.
ELCBUS 497 Guided Internship (1-10, max. 10) A significant research project planned and carried out by the student under the direction of one or more faculty.

ELCBUS 499 Undergraduate Research (1-5, max. 15) Individual advanced research on topics related to business issues and conducted under the direction of one or more instructors.

Education

B EDUC 220 Education and Society (5) I&S Joseph Examines educational problems, policy, and practice from interdisciplinary perspective. Explores the tensions between education values and goals throughout the history of public schooling in the United States and develops critical perspectives through which to evaluate current proposals for school reform. Offered: Asp.

B EDUC 230 Culture, Knowledge, and Education (5) I&S, DIV Gourd Explores the intersection of culture, knowledge, and education. Examines each concept separately then focuses on ways they interact and affect educational opportunities. Cultural issues include: race, socio-economic histories, language, gender, sexual orientation, and religious views. Uses perspectives from diverse academic disciplines and considers education as extending beyond school settings. Offered: W.

B EDUC 250 Topics in Education and Popular Culture (3/5, max. 10) VLPA Au Examines education in relation to specific elements of popular culture in order to deepen understanding of the connections and tensions within society. Explores how popular culture is used to enhance the education experience. Topics include popular forms of art, media, literature, or theatre. Offered: ASp.

B EDUC 255 Critical Diversity Studies (5) I&S, DIV Introduces theories, concepts, research, and policies that provide a foundation for exploring connections between diversity and equity and for recognizing ways in which these connections are relevant to individuals, institutions, and the world. Offered: jointly with BIS 255.


B EDUC 330 Race, Culture, and Identity in the Classroom (5) I&S, DIV Examines the ways that various aspects of student identity are entwined with pedagogy and curriculum. Focuses on multicultural education, the politics of language, racism and testing, cultural identity development, and classroom diversity. Prerequisite: either B EDUC 220 or B EDUC 230.

B EDUC 391 Special Topics in Education (1-5, max. 10) Explores perspectives on educational policy and practice. Offered: AWSpS.

B EDUC 392 Independent Study (1-5, max. 10) Faculty supervised readings and activities in areas of special interest for individual students.

B EDUC 401 Study Abroad: Education (1-5, max. 15) I&S Combines study at UW Bothell with seminars and field trips organized by the Education faculty or the faculties of host institutions in foreign countries. Topics include education policies, teaching or learning, and cultural perspectives on education.

B EDUC 402 Human Growth and Learning (5) I&S Focuses on recent research in the area of child and adolescent learning and on the relationship of learning to human growth and development. Credit/no-credit only.

B EDUC 403 Introduction to Special Education (2) Introduces basic knowledge for facilitating the success of all children in general education classrooms, with an emphasis on children who receive special education services. Discusses various disabilities, variations in development, legislation, referral, differentiation, and the general education teachers’ role. Not open for credit for students that have taken EDSPE 404 at the Seattle Campus.

B EDUC 405 Context of Learning and Schooling (3) I&S Surveys major themes of historical, legal, philosophical, political, ethical and social contexts of learning and schooling in American society. Integrates several disciplines as the foundation from which to view the instructional process.

B EDUC 406 Introduction to Field Placements (2) Introduction to building learning communities in classrooms. Involves students in assigned field placements in K-8 schools and in seminars on campus. Credit/no-credit only.

B EDUC 408 Knowing, Teaching, and Assessing in Multicultural Education and Social Studies (5) I&S Provides students with classroom methods, materials, and assessment strategies for teaching social studies in elementary schools. Grounded in democratic beliefs and assumes citizenship participation as an essential part of a free, humane, and civic community.

B EDUC 409 Knowing, Teaching, and Assessing in: Reading, Writing and Communicating (4) The first in a two-course sequence that builds understanding about literacy development and instruction. Focuses on early literacy, writing processes, and children’s literature.

B EDUC 410 Knowing, Teaching, and Assessing in Reading, Writing and Communicating (4) The second of two course sequence that builds understandings about literacy development and instruction. Focuses on reading for intermediate readers including comprehension, assessment, and remediation.

B EDUC 413 Knowing, Teaching, and Assessing in The Arts (3) Explores dance, music, visual arts, drama, and literary arts as integral strands of children’s learning. Credit/no-credit only.

B EDUC 416 Instructional Design and Assessment (2) Explores the major concepts, theories, and research related to the development of learning opportunities for children that support individual students’ development, acquisition of knowledge, and motivation. Focuses on strategies for implementation of instruction in schools.

B EDUC 417 Families, Communities and Schools (2) Examines the fundamental values and assumptions that animate our educational endeavor through families, communities, and schools. Topics include changing demographics, community resources and involvement, and diversity of families. Credit/no-credit only.

B EDUC 418 Knowing, Teaching, and Assessing in Intermediate Level Mathematics (4) Develops understanding of intermediate level mathematics concepts, tools, and strategies for teaching these concepts, and students’ mathematical learning. Pre-service teachers explore a variety of activities to facilitate their success as intermediate level mathematics teachers.

B EDUC 419 Knowing, Teaching, and Assessing in Mathematics (4) Introduces the nature of mathematics as an exciting way to interpret the world and as an elegant way to solve problems. Emphasizes using
mathematical thinking to discover order and represent patterns rather than memorizing mathematical rules to be followed.

B EDUC 421 Knowing, Teaching, and Assessing in: Earth, Physical, and Life Sciences (4) Introduces the nature of science as subject matter, as a process of inquiry, and as a fascinating way to make sense of the world. Emphasizes the techniques, attitudes, skills, and competencies needed to become a scientifically literate citizen.

B EDUC 423 Knowing, Teaching, Assessing in Health, Fitness and Issues of Abuse (3) Examines health and fitness as it relates to children’s development of responsibility health promoting behaviors; how to identify physical, emotional, sexual, and substance abuse; teacher report responsibilities; and methods of teaching about abuse/prevention. Open to Bothell Teacher Certification Program students only.

B EDUC 425 Reflections on Professional Practice Seminar (1-5, max. 15) Reflections on field work in educational settings. Credit/no-credit only.

B EDUC 427 Reflections on Professional Practice Seminar: Becoming a Professional Educator (3) Through readings and reflective writing, students explore teacher as a member of a professional community and as a learner, teacher as agent of social justice, and the personal, social, and professional responsibilities of teaching. Credit/no-credit only.

B EDUC 435 Student Teaching (15) Students assume all facets of the teaching role in a full-time placement. Credit/no-credit only.

B EDUC 437 Current Issues in Technology (1-3, max. 9) Sequenced and concentrated instruction and collaborative work in instructional technology to be integrated with other quarterly course work Credit/no-credit only.

B EDUC 452 Service Learning Practicum in Education (2, max. 6) I&S To be taken concurrently with any two or three credit UW Bothell Education courses. Requires approximately 40 hours of service learning in a school and/or other appropriate setting approved by the course instructor. Credit/no-credit only.

B EDUC 456 Adolescents in School and Society (5) I&S Discusses some of the transformations of consciousness that occur in adolescence and examines how social structures, particularly formal schooling, help shape those transformations. Requires a community-based learning project. Offered: W.


B EDUC 461 Educational Implications of Gender Inequality (5) DIV Examines the historical foundations of gender inequality in education, discuss gender as a factor in access to education, and explores recommended classroom practices designed to reduce gender inequality.

B EDUC 465 Fostering Algebraic Reasoning (5) NW, QSR Focuses on methods of teaching algebra from a developmental perspective, including research-based methods for developing students’ algebraic thinking and structure and processes used in algebra. Prerequisite: either B CUSP 125, STMATH 125, or MATH 125. Offered: jointly with STMATH 465.

B EDUC 466 Fostering Geometric Thinking (5) NW, QSR Focuses on methods of teaching geometry from a developmental perspective, including research-based methods for developing students’ geometric thinking and structure and processes used in geometry including proof. Prerequisite: either B CUSP 125, STMATH 125, or MATH 125. Offered: jointly with STMATH 466.

B EDUC 467 Fostering Statistical Thinking, Data, and Graphical Analysis (5) NW, QSR Focuses on methods of teaching data and graphical analysis and statistical thinking from a developmental perspective, including how to foster secondary students' statistical thinking, and using technological tools to teach key concepts in secondary mathematics using big data sets, graphical analysis, and dynamic visualization. Prerequisite: either B CUSP 125, STMATH 125, or MATH 125. Offered: jointly with STMATH 467.

B EDUC 473 History of U.S. Public Schooling (3) Examines the development of educational policy and practice over time. Emphasizes United States schools from 1750 to present.

B EDUC 475 Global Perspectives on Diversity and Citizenship Education (3) I&S, DIV Explores the relationship between diversity and citizenship education in a select group of nation-states. Discusses challenges experienced by citizens in those nation-states as the nations respond to diversity while trying to maintain national cohesion.

B EDUC 476 New Literacies for Digital Learning (5) Examines “literacy” in a time of global digital communication, collaboration, and creation. Includes both critical and theoretical readings on the rapid shifts in digital culture and hands-on experience with becoming a networked digital learner. Offered: W.

B EDUC 480 Life and Learning in the Middle School (3) Gourd Introduces three components of preparation to teach in a middle school: adolescent development, the structure of the middle school, and developmentally appropriate curriculum and instruction (designed specifically for middle schoolers). Recommend for students who are preparing to teach in a middle school or junior high. Offered: Sp.

B EDUC 491 Special Topics in Education (1-5, max. 15) Offered: AWSpS.

B EDUC 493 Environmental Education (3) NW Analyze various environmental programs and prepare an individualized project. Learn to apply ecological concepts in the classroom and learn how to teach about various environmental education programs.

B EDUC 501 Inquiry in Education (3/5) Introduces tools for looking closely at classrooms and professional practice. Explores a professional question through gathering information, collegial discussion with their peers, and readings that offer multiple perspectives. Offered: A.

B EDUC 502 Teachers’ Self-Understanding (3/5) Uses readings and writing autobiography and examining key concepts in multicultural education as a basis for creating the reflective space necessary for teachers to better understand how personal elements of their lives, formed historically and culturally, influence their teaching and relationships with students. Offered: W.

B EDUC 503 History and Politics of Teaching (3) Explores historical, political, and social issues that affect classrooms and schools, as well as the nature of historical and political analysis.

B EDUC 504 Theories of Organizational Change and School Reform (3/5) Explores theories of organizational change and school reform. Practical strategies on how to be comfortable with and facilitate change in educational situations. Offered: Sp.

B EDUC 507 Reviewing the Literature (3) Explores how to locate, analyze, and synthesize professional literature on a topic and how to assemble the resources necessary to write a review of that literature.
Supports critical literature review application of knowledge product for program completion dossier.

B EDUC 508 Early Literacy Development and Instruction (3) Builds an understanding of how young children (ages 4-8) develop literate behaviors, and how teachers can support this development. Explores emergent literacy behaviors, oral language development, building a literate identity, phonemic awareness, decoding, reading comprehension, spelling, and writing.

B EDUC 510 Literacy Instruction for Diverse Learners (3) Place, Smith Helps teachers meet the educational and linguistic needs of students with diverse needs or limited English language skills. Emphasizes instructional strategies consistent with a variety of approaches to curriculum adaptation and second-language learning. Examines strategies for classroom adaptation.

B EDUC 512 Theoretical Foundations for Multicultural Classrooms (3)

B EDUC 515 Perspectives on Curriculum Integration (3) Eisele Explores various means of developing integrative curriculum. Develops familiarity with existing methods of integrating curriculum and, by expanding the understanding of integration, to develop new methods. Studies approaches to integration within a single subject and between subjects will be developed into useable plans. Offered: S.

B EDUC 516 Teaching Diverse Students (3)

B EDUC 517 Working with Struggling Readers Grades 3-8 (3) Develops the strategies and understandings necessary for effective assessment and instruction of struggling readers in grades 3-8. Focuses on classroom-based assessments and their benefits for informing individual or whole class reading instruction.

B EDUC 518 Observing and Describing Children and Their Work (3) Focuses on observation and description of children and their work. Learn skills of observation as well as a process of systematic collaborative inquiry that validates teachers' knowledge of their students while also generating new knowledge. Study the work of teacher researchers who base their work on thoughtful observations of children.

B EDUC 519 Classroom Discourse (3) Examines how classroom talk creates and conveys multiple and complex notions of self, roles, status, learning, and subject matter. Addresses what discourse is present in classrooms and how it can be best used to facilitate teaching and learning.

B EDUC 520 Current Issues: Multicultural Education (3-5, max. 10) Offered: S.

B EDUC 521 Using Multicultural Literature in the Classroom (3) Banks The dimensions of multicultural education serve as a framework for educators to review and compile bibliographies of books and compile bibliographies of books that can be used with students in the classroom. Discusses books for children and adults. Discussion and reflection on concepts such as essentialism and representation. Selection and evaluation of books to infuse multicultural content into the curriculum.

B EDUC 522 Education and the American Dream (3) Galen Considers tensions inherent in the deep American belief that individuals can reach unlimited potential through success in school. Looks at ways in which the American educational system has been created within American beliefs in equal opportunity based on merit, yet remains an institution that sorts individuals for very unequal futures. Offered: A.

B EDUC 523 Improving Human Relations in Schools (3) Addresses issues related to teaching in a pluralistic society. Explores the historical foundations of intergroup education, theories supporting the human relations approach and teaching strategies, materials, and assessment that can be used to improve human relations.

B EDUC 525 Evaluating Curricula, Programs, and Institutions (3) Examines the extent to which curricula, programs, and institutions effectively meet objectives. Examines terminology, models, standards, and practices in program evaluation from a perspective useful to practicing teachers and other professionals. Discusses political realities, social demands for accountability, and ethical considerations in program evaluation.

B EDUC 527 Educational Theorists and Reformers (3, max. 6) Provides an in-depth study of the work of prominent educators whose contributions have significantly impacted understandings of the nature of learning teaching, and schooling.

B EDUC 530 Current Issues: Integrated Curriculum (3-5, max. 10)


B EDUC 532 Discourse in the Mathematics and Science Classroom (3) Hintz Examines essential questions regarding classroom discourse and how it relates to teaching practice and student learning in K-12 mathematics and science classrooms. Questions include: what is classroom discourse; how does it relate to learning math and science; what issues can be investigated through the study of discourse in math and science classrooms. Offered: A.

B EDUC 533 Computers in the Classroom: Issues and Uses (3) Examines the dynamics of instruction and interaction in classrooms while preparing students for worlds that do not yet exist. Essential questions include issues of equity, disengagement, and the quality of learning and knowing in a diverse and complex society. Uses current technology to enhance computer skills, create and evaluate quality learning experiences, and explore issues of equal access for all.

B EDUC 534 Current Issues in Literacy Research (3) Smith Explores current research examining issues of literacy development and instruction. Considers research design, data analysis, study findings, and classroom implications from a critical practitioner-oriented perspective.

B EDUC 535 Writing Across the Curriculum (3) Explores instructional strategies designed to guide students in acquiring and developing writing skills across the curriculum. Emphasizes preparing materials to use in single subject-area teaching as well as developing as a writer to effectively model and scaffold writing instruction.

B EDUC 536 Teacher Leadership: Renewing, Revitalizing, Reframing (3) Develops and promotes in teachers the knowledge, skills and "conditions of the heart” necessary to be a teacher leader. Based on the premise that teachers need to be active participants in the formation of a future that positively impacts the lives of students and professional communities of schools.

B EDUC 537 Assessment (3) Analyzes the development, use, and interpretation of classroom-based assessments, including student self-assessment. Explores concepts of validity, reliability, and appropriate use in relationship to both classroom-based and commercial assessments. Critiques use of assessment in relation to goals of equity, educational quality, and accountability.

B EDUC 538 Adolescent Literacy (3) Examines current issues, research, and innovations in adolescent literacy research and practice. Considers the issues of motivation, comprehension, vocabulary, and multiple
literacies including technology and home-school connections. Examines articles by research and teacher leaders in the field.

B EDUC 539 Literacy Coaching (3) Examines research and practice focused on literacy coaching in terms of mentoring, peer collaboration, and teacher leadership development. Emphasizes literacy content and pedagogical content knowledge, theories of teacher change, and models of effective professional development.

B EDUC 540 Principles of Inclusion: Students and Families (5) Gourd, Naranjo Focuses on issues, principles, practices, and legal responsibilities to student identified for special education and English language learners. Specific attention is given to culturally-and developmentally-aware policies and practices inclusive of students and their families. Offered: Sp.

B EDUC 541 Second Language Acquisition, Bilingual Education, and the Structure of English (5) Gourd, Naranjo Focuses on theories in second language acquisition, bilingual education, and the structure of English. Topics include research, practice, and connections between language, literacy, cultural traditions, identity, and education in preparation for teaching ELLs in general education of classes specifically for ELLs. Offered: W.

B EDUC 542 Curriculum, Instruction, and Assessment for Teaching English Language Learners (5) K. Gourd Participants develop curriculum, instruction, and assessment for speakers of other languages learning in English at any level. Emphasizes support of language and content development in general education classrooms. Required course in ELL endorsement program. Prerequisite: B EDUC 540; B EDUC 541. Offered: A.

B EDUC 552 Curriculum, Instruction, and Assessment in Middle and Secondary Science I (5) Participants develops curriculum, instruction, and assessment based on theories of teaching and learning in science and inclusive of all students. Attention given to content-based use of technology, working across disciplines, teaching ELL's, students with special needs, and co-teaching models. Includes direct work with adolescents. Prerequisite: B EDUC 556; B EDUC 557. Offered: Sp.

B EDUC 553 Curriculum, Instruction, and Assessment in Secondary English, Social Studies, and History (5) Gourd Participants develops curriculum, instruction, and assessment based on theories of teaching and learning in science and inclusive of all students. Attention given to content-based use of technology, working across disciplines, teaching ELL's, students with special needs, and co-teaching models. Includes direct work with adolescents.

B EDUC 554 Curriculum, Instruction, and Assessment in Middle Grades and Secondary Science (5) Learn to teach science in a way that makes the content both rigorous and accessible. Develop an understanding of how the world of the student and the worlds of science intersect. Participate in best practices of science teaching and reflect on these practices. Offered: A.

B EDUC 555 Building Partnerships: Home, School, and Community (5) Examines the forms of collaboration, contention, and controversy in the relationship between schools, the families of students, and local communities from historical, sociological, and political perspectives.

B EDUC 556 Adolescent Development (5) Provides an in-depth examination of specific theories, concepts, and methods related to adolescence. Explores a wide range of topics including: cognitive development, moral development, identity formation, gender role, social relationships, and the effects of culture and schooling on adolescent development. Includes a community-based learning component. Offered: W.

B EDUC 557 Curriculum Studies (5) P. Joseph Introduces the field of curriculum studies including curriculum theory and interdisciplinary study of the educational experience. Explores dominant ideas and alternative practices. Focuses on how curriculum and schools are manifestations of culture and how historical and contemporary premises about curriculum influence the culture of classrooms and schools. Offered: A.

B EDUC 558 Curriculum, Instruction, and Assessment in Secondary Social Studies and History (5) Explores standards and critical areas of social studies and history. Discusses how to design learning objectives, plan for instruction, use resources, evaluate student learning, and teach social studies and history as integrated and interdisciplinary subjects. Offered: A.

B EDUC 559 Curriculum, Instruction, and Assessment in Secondary and Middle Level Mathematics I (5) Participants develops curriculum, instruction, and assessment based on theories of teaching and learning in science and inclusive of all students. Attention given to content-based use of technology, working across disciplines, teaching ELL's, students with special needs, and co-teaching models. Includes direct work with adolescents. Prerequisite: B EDUC 556; B EDUC 557. Offered: Sp.

B EDUC 560 Curriculum, Instruction, and Assessment in Secondary Science and Mathematics II (5) Emphasizes the complexity of teaching and learning science and mathematics. Works closely with expert teachers to develop and teach a unit of instruction. Gains practice in designing, conducting, and reflecting on formative and summative assessments in the school setting. Offered: A.

B EDUC 561 Education and Gender (3)

B EDUC 562 Multicultural Education: Race, Class, and Gender (3)

B EDUC 563 Curriculum, Instruction, and Assessment in Secondary English Methods I and II (5-, max. 10) Helps prospective teachers of English become more thoughtful about the aims, theories, and research methods for teaching English in secondary schools. Encourages reflective thought in the development of materials and plans for implementing secondary English lessons and units that can facilitate student learning. Offered: A.

B EDUC 564 Field Experience in Secondary Schools (3-6, max. 6) Provides field experiences to reflect on teaching and learning in the secondary schools. Overlap with discipline specific methods course. Offered: A.

B EDUC 565 Student Teaching (10) Students assume all facets of the teaching role in a full-time placement. Prerequisite: satisfactory completion of required secondary endorsement course work. Offered: W.

B EDUC 566 Education and Technology (3) Examines issues related to the uses of technology in the classroom. Introduces advances in educational technology and critiques of the pedagogical and epistemological implications of increased reliance upon information technologies in the classroom and the broader society.

B EDUC 567 Telling Our Stories As Teachers: Digital Storytelling as Reflective Practice (5) Galen, Van Uses multi-media tools to weave the complex voices, images, and energy of classrooms to create digital stories as teachers. Through, software tutorials, work-shopping of writing, peer review of emerging projects, and production time, students learn more about themselves as teachers while also learning about technologies that can be used in classrooms. Offered: S.

B EDUC 569 Educational Policy, School Politics and Teacher Power (3) Teachers work in a complex web of political relationships, contested values, and competing ideas in schools. Exercises help participants
understand teachers’ (K-12) and policymakers’ roles in school politics and develop frameworks from which to base the responsible exercise of autonomy in schools.

B EDUC 570 Problems in Qualitative Research Methodology (3-5) Examines a specific qualitative research methodology on a rotating basis. Examples of different methodologies may include action research, archival studies, biography, case study, classroom observation, ethnography, feminist studies, grounded theory, historiography, narrative studies, phenomenological studies, policy research, and sociolinguistics.

B EDUC 577 Curriculum Development (3) Explores various models of curriculum development including established practices and alternative paradigms. Provides opportunities to analyze and critique current and historical models of curriculum planning and to examine the pedagogical, social, and political influences upon curriculum development. Offered: W.

B EDUC 579 The Power and Beauty of Mathematics (3) Examines how mathematics helps us discover the rules and structures that underlie patterns and regularities in our world. Illustrates how an integrated curriculum combined with inquiry-based methodology can be used to explore some of the mathematical foundations on which the world rests.

B EDUC 587 Science, School Knowledge, and Contemporary Social Issues (3) Explores the impact of science on society as well as the vision for the teaching of science currently being advocated by those involved with science education reform. Discusses contemporary social issues, such as the ethical dilemmas presented by scientific advancements and science education reform issues.

B EDUC 591 Special Topics in Education (1-5, max. 10)

B EDUC 592 Independent Study (1-6, max. 12) Faculty-supervised readings and research in areas of special interest for individual students.

B EDUC 595 Professional Portfolio (3-5, max. 10) Provides an opportunity for students to reflect on learning and professional growth through the construction of a culminating portfolio. Serves to document and deepen understanding of the competencies gained as a result of participation in the program. Credit/no-credit only.

B EDUC 596 Professional Paper (2-5, max. 10) Complete a professional paper under the advisement of a faculty member in the program following submission and approval of a description of the proposed paper. Extends over two quarters and includes a public presentation of the completed work. Credit/no-credit only.

B EDUC 597 Practitioner Focused Research (3) Examines how change in classrooms can be fostered by practitioner research projects. Provides an opportunity to carry out the steps of a site-based research project: examine literature; develop research questions or testable hypothesis; and generate methodology for carrying out investigation as a practitioner. Prerequisite: B EDUC 501. Credit/no-credit only.

B EDUC 598 Project Implementation ([2-5], max. 15) Second course in a three-course sequence of a culminating project focused on the implementation of a project designed to create change in an educational setting. Credit/no-credit only.

B EDUC 599 Culminating Project (2-5, max. 15) Third course in a three-course sequence of a culminating project focused on an analysis, synthesis, and final write-up of a project implementation experience. Credit/no-credit only.

Leadership Development for Educators

LEDE 510 Personal Leadership for Schools (2-6, max. 8) Helps principal candidate develop the personal qualities and commitments associated with successful school leadership. Focuses on leadership theories, professional knowledge and ethics, and strategies for continued learning in professional practice.

LEDE 520 Leadership for Curriculum and Teaching (2-6, max. 8) Helps principal preparation candidates expand knowledge for assisting other teachers with curriculum, instruction, and student engagement with learning. Focuses on knowledge of exemplary practice and documentation of impact of teaching and learning in schools.

LEDE 530 Leading Schools as Responsive Public Institutions ([2-6], max. 8) Helps principal candidates build knowledge for developing and stewarding a schools’ vision and goals so that they are just, sustainable, and responsive to legal, political, professional, and local interests. Focuses on legal, political, and professional contexts of school leadership and builds skills for communication about school goals and needs.

LEDE 540 Leading Schools as Continuously Renewing Organizations ([2-6], max. 8) Helps principal candidates lead an effective and continually improving organization. Builds understanding of school managerial responsibilities as well as more complex tasks of assessing school needs and developing theories of action that focus daily work on desired school outcomes.

LEDE 550 Leading Inclusive School Communities ([2-6], max. 8) Helps principal candidates strengthen relationships, steward norms, establish programs, and lead conservations that foster collaborative decisions and collective action among the school’s many constituencies. Builds understanding of the ways that social capital, student and family diversity, and family involvement influence student learning and can be influenced by principle leadership.

LEDE 560 Leadership for Student Services ([2-6], max. 8) Helps principal candidates develop knowledge and skills for school-level delivery of supports for students with exceptionalities, including creating a conducive climate for learning, identifying exceptional learning needs, and providing services needed to supplement instruction.

LEDE 591 Topics in Educational Leadership (1-5, max. 15) Examines topics in educational leadership with particular attention to evolving leadership demands associated with advanced in law, public policy, educational research, and administrative practice.

Interactive Media Design

B IMD 330 Quantitative Methods in Interactive Media (5) QSR Emphasizes mathematical concepts and principles related to the design, production, and analysis of media applications. Areas include ethics, probability theory, statistics, data visualization, research approaches, media-specific metrics, strategies, project management/budge, on-line survey techniques, and results presentation. Offered: A.

B IMD 350 Designing Media Experiences - MX (5) Looks at the design of media experiences including the visual, haptic/kinetic, and cognitive aspects of humans as they interact with a variety of forms of media. Prerequisite: B IMD 330. Offered: W.

B IMD 351 Studio Elements I: Introduction (5) Provides a survey of media design principles and technologies including characteristics of the studio process, fundamental project management and design methodologies, creativity, understanding audience, and explores user-centered design concepts. Projects linked to a series of introductory concept modules. Prerequisite: CSS 233. Offered: A.
B IMD 352 Studio Elements II: Essentials (5) Second of three studio elements courses that provides core theory and methods related to dynamic web applications and integration with databases, photography, film production, audio techniques, and animation/storyboarding. Prerequisite: B IMD 351. Offered: W.

B IMD 353 Studio Elements III (5) Third of three studio elements courses providing core theory and methods related to advanced storyboarding, media pre-production, web technologies/base architecture, video/audio integration, and other related areas critical to interactive media. Students complete projects and begin planning for their integrative project. Prerequisite: B IMD 352. Offered: Sp.

B IMD 362 Studio Elements II: Practicum (5) Requires students to design and develop interactive media projects using design and production concept modules in an applied setting. Corequisite: B IMD 351. Offered: W.

B IMD 363 Studio Elements III: Practicum (5) Students design and develop interactive media projects using concept modules in an applied setting. Prepares students for senior-level integrative studio and specialty-area project. Prerequisite: B IMD 353, which must be taken concurrently; B IMD 362. Offered: Sp.

B IMD 390 Special Topics in Interactive Media Design (5, max. 10) Provides an opportunity to study a special topic on interactive media design. Offered: AWSpS.

B IMD 401 Study Abroad: Interactive Media Design (1-5, max. 15) Upper-division courses related to interactive media design, for which there are not direct University of Washington Bothell equivalents, taken through a University of Washington study abroad program.

B IMD 440 Systems of Digital Media Architecture (5) Examines the components, technologies, and tools commonly used for multi-tier interactive digital media systems. Covers the design, implementation, deployment, and operational considerations for these systems such as infrastructure, software architectures, communication protocols, cloud-based systems, staging environments, usage and quality metrics, and supporting tools. Prerequisite: B IMD 352; B IMD 362.

B IMD 460 Media Production Techniques (5) Utilizes various interactive media formats and enables students to create video or animation projects and apply their video and animation materials. Evaluates processes and audience reception.

B IMD 481 Integrative Studio I: Design (5) Provides a series of design topics covering forming high-performing and innovative teams; analyzing audience characteristics such as accessibility, diversity, and global reach concerns; evaluating desirability, viability, feasibility, and sustainability; and developing comprehensive design and management artifacts for pitching and producing projects. Prerequisite: B IMD 353. Offered: A.

B IMD 491 Integrative Studio Practicum I (5) Assesses and applies multiple models of interactive media design in iterative development and integrative projects, especially in relation to an integrative project that capitalizes on the student’s specialty area. Prerequisite: B IMD 363; B IMD 481, which must be taken concurrently. Offered: A.

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**Interdisciplinary Arts and Sciences**

**Creative Writing and Poetics - Bothell**

B CWRT 500 Writing Workshop: Between Prose and Poetry (5) Brown, Heuving, Hiebert, Milutis Focuses on the cross over between prose and poetry in multiple genres. Considers the prevalence of narrative and alternatives to narrative. Offered: AWSpS.

B CWRT 501 Writing Workshop: Between Fact and Imagination (5) Brown, Heuving, Hiebert, Milutis Examines the relationships between fact and imagination in fiction, non-fiction, and poetry writing. Offered: AWSpS.

B CWRT 502 Writing Workshop: Processes of Thinking and Memory (5) Brown, Heuving, Hiebert, Milutis Engages the primary processes of thinking and memory as they are affected by divers writing practices and media applications. Offered: AWSpS.

B CWRT 510 Poetics Seminar: Cultural Change and Writing (5) Brown, Heuving, Hiebert, Milutis Engages the subject of poetics as writing theory and practice. Focuses on cultural, social, and technological change as these create new challenges and possibilities for creative writing. Offered: AWSpS.

B CWRT 511 Poetics Seminar: Writers’ Research (5) Brown, Heuving, Hiebert, Milutis Addresses how writers utilize research in their writing and inquires into different kind of research that can be pursued: textual, ethnographic, and performance-based. Offered: AWSpS.

B CWRT 512 Poetics Seminar: Art, Technology, and Practice (5) Brown, Heuving, Hiebert, Milutis Explores relationships among art, technology, and creative practice. Examines connections among diverse art forms, inquiring into their social, philosophical, and aesthetic dimensions. Offered: AWSpS.

B CWRT 517 Teaching Practicum (3-5) Practicum in which students gain theoretical and practical experience in teaching within community groups and organizations, in elementary and secondary schools, or in community colleges and universities.

B CWRT 520 Creative Writing and Poetics Internship (2-5, max. 5) Students conduct an internship within an organization in order to develop and extend their writing expertise. Topics and sites vary with student interest.

B CWRT 530 Community-Based Practicum (2-5) Students initiate, plan, carry through, and evaluate a literary or arts event or series of events for a specific community or arts venue. Topics and sites vary with student interest.

B CWRT 597 Directed Readings (2-10, max. 10) Intensive reading in literature, literary and art criticism, critical theory, or poetics.

B CWRT 598 Directed Research (2-10, max. 10) Focused inquiry into specific research ideas, issues, or topics and elected analytical and creative methods for pursuing these.

B CWRT 700 Master’s Thesis (0-10) Brown, Hiebert, Heuving, Milutis Includes completion of a creative thesis in one of the following areas: poetry, fiction, non-fiction, or cross genre as well as a poetics essay or artist’s statement. Students may elect to engage multiple media or performance venues in partial completion of their thesis. Offered: AWSpS.

**Cultural Studies - Bothell**

BCULST 500 Formations in Cultural Studies (10) Burgett, Krabill Focuses on historical and contemporary forms of cultural studies inquiry, with an emphasis on the local and global questions and problems that shape that inquiry. Offered: A.
BCULST 501 Cultural Studies as Collaboration (5) Kochhar-Lindgren
Focuses on interactions of ethnographic, textual, and performance-based research methods, with special emphasis on participatory action research strategies. Combines theoretical considerations and experimental learning. Prerequisite: BCULST 500. Offered: Sp.

BCULST 502 Cultural Studies Research Practices (5) Lerum
Focuses on interactions of ethnographic, textual, and performance-based research methods, with special emphasis on participatory action research strategies. Prerequisite: BCULST 501. Offered: W.

BCULST 510 Engaging Cultural Studies (5) Focuses on the design, development, and piloting of students' individual or collaborative capstone projects and the development of their program portfolio. Initiates the first phase of the capstone project. Prerequisite: BCULST 502. Offered: AWSpS.

BCULST 511 Portfolio and Professional Development (1) Focuses on the development of individual or collaborative capstone projects, with faculty-facilitated workshops and students' own independent writing and research. Prerequisite: BCULST 510. Offered: AWSpS.

BCULST 512 Cultural Studies and its Publics (10) Focuses on the completion and public presentation of the students' individual or collaborative capstone projects, including the annual MA symposium and the completion of the individual student’s program portfolio. Prerequisite: BCULST 511. Offered: AWSpS.

BCULST 520 Internship (2-5, max. 10) Internship with a local organization, agency, or arts company that incorporates a “field-based” component into learning. Includes a cultural studies project that benefits the organization and has academic merit. Prerequisite: BCULST 500. Offered: AWSpS.

BCULST 570 Prisons, Politics, and Activism (5) Berger
Focuses on prisons as a site through which to explore critically the intersections of punishment, policies, institutions, identities, and social movements.

BCULST 580 Approaches to Ethnographic Research (5) Lerum, Stewart
Investigates and evaluates the theoretical and methodological foundations on ethnography. Provides hands-on experiences in ethnographic methods, and development and assessment of ethnographic research proposals. Offered: AWSpS.

BCULST 581 Approaches to Textural Research (5) Advanced investigation of the theory and practice of textual research methods. Identifies the different components of textual research and explores their interrelation. Prerequisite: BCULST 500 or permission of instructor. Offered: AWSpS.

BCULST 582 Approaches to Performance-Based Research Methods (5) Focuses on how a specific performance approach, such as dance, movement, theatre, storytelling, mixed media, or performing ethnography, acts as a site of research in relation to a particular topic. Examines how to implement performance-based approaches and assess their significance. Prerequisite: BCULST 500 or permission of instructor. Offered: AWSpS.

BCULST 583 Topics in Public History and Culture (5) Watts
Explores theories and practices of public history and culture. Offered: AWSpS.

BCULST 584 Topics in Media Culture (5, max. 15) Explores issues in media culture, such as the connections between media and social movements, from cultural studies perspectives. Offered: AWSpS.

BCULST 585 Topics in Cultural Activism and Advocacy (5) Burgett, Stewart
Explores theory, practice, and dilemmas relating to cultural advocacy, understood as object, site, instrument, or basis of social action. Offered: AWSpS.

BCULST 586 Topics in Arts and Cultural Policy (5, max. 10) Explores historical and contemporary issues in arts and policy. Includes examination of the roles played by governmental, for-profit, and not-for-profit organizations in shaping artistic and cultural practices and arenas. Prerequisites: BCULST 500, 585. Offered: AWSpS.

BCULST 587 Topics in Cultural and Arts Practice (5) Kochhar-Lindgren, Thomas
Investigates issues in cultural and arts practice in diverse settings. Offered: AWSpS.

BCULST 588 Topics in Culture and Diversity (5, max. 15) Investigates the intersections between culture and diversity and focuses on the encoding and transmission of knowledge through a variety of cultural practices. Uses ethnographic, historiographical, textual, and performance-based methods to move from the forms themselves to community sites of memory and identity. Offered: AWSpS.

BCULST 589 Topics in Global Cultural Studies (5, max. 15) Links a specific area of study, such as hip hop, YouTube, or garbage, to global cultural studies and the methodologies of visual, material, textual, or arts-based research. Offered: AWSpS.

BCULST 591 Research Colloquium (1, max. 5) Provides an opportunity for graduate students and faculty members to exchange research ideas, present findings, discuss analytical methods and tools, and evaluate the implications of the presented research. Credit/no-credit only. Offered: jointly with BPOLST 591; AWSpS.

BCULST 592 Topics in Cultural Studies Research (2-5, max. 10)
Allows for the investigation of special topics in cultural studies research. Offered: AWSpS.

BCULST 593 Cultural Studies Skills Workshop (1-3, max. 15) Focuses on problem solving, case studies, and actual practice.

BCULST 594 Research Design (5) Extends an understanding of research design principles, developing further capacities in research design, especially in relation to sites that necessitate sensitivity to emergent cultural practices and the evolving nature of partnerships. Provides opportunities for research design in response to requests from the community. Offered: AWSpS.

BCULST 595 Cultural Studies Skills Workshop (1-3, max. 9) Provides the opportunity to develop applied skills in an area relevant to professional careers in social, cultural, and arts fields. Workshops emphasize hands-on problem solving, case studies, and actual practice.

BCULST 596 Study Abroad (5-15, max. 15) Study abroad opportunity that incorporates a global learning component into cultural studies. Offered: AWSpS.

BCULST 597 Directed Research (1-5, max. 15) Develops research ideas, analytical methods and tools, or the cultural studies implications of research in specific directions that are not covered in the standard MACS offerings. Prepares for a cultural studies/community project. Offered: AWSpS.

BCULST 598 Capstone Research (1-5, max. 10) Provides intensive one-on-one research support for the capstone project. Students and their capstone advisors establish customized meeting/collaboration scheduled according to individual needs. Prerequisite: BCULST 502. Offered: AWSpS.
BES 301 Science Methods and Practice (5) NW, QSR Overview of the scientific method, emphasizing the development of testable hypotheses, scientific writing and analysis.

BES 302 Environmental Problem Solving (5) Introduces different aspects of environmental problem solving. Uses real-world situations for thinking quantitatively and creatively about such environmental concerns as energy and water resources, food production, indoor air pollution, acid rain, and human influences on climate.

BES 303 Environmental Monitoring Practicum (2) NW, QSR Provides an introduction to the principles and methods of environmental monitoring and analysis. Field and laboratory studies provide experience with monitoring equipment and rigorous sampling techniques; enhance understanding of the range and variability of environmental parameters; and develop abilities in the quantitative analysis, interpretation, and presentation of data.

BES 311 Environmental Chemistry (5) NW, QSR Uses fundamental chemical principles to examine fate, reactivity and transport of environmental pollutants. Emphasis given to atmospheric pollution, chemistry of natural and polluted waters, soil chemistry, chemistry of organic and inorganic toxins. Prerequisite: B CHEM 143.

BES 312 Ecology (5) NW Introduces major concepts of ecology and relates these concepts to current environmental issues. Topics include the relationship between organisms and the physical environment, evolutionary processes, the structure and function of ecosystems, population biology, forest management, pesticide use, and global warming. Prerequisite: B BIO 180.

BES 315 Environmental Chemistry Laboratory (5) Covers the basic techniques for chemical analysis of environmental samples including air, water and soil. Students learn to utilize electronic data acquisition systems and further develop their scientific writing skills. Prerequisite: BES 301; BES 311; recommended: BIS 315 or equivalent.

BES 316 Ecological Methods (5) NW Introduces students to methods used in the analysis of ecological systems and their processes. Employs data analysis tools, graphic presentation, and scientific writing in the presentation of results from laboratory and field studies. Includes lectures, laboratory work, and field investigations. Prerequisite: BES 312.

BES 317 Soils Laboratory (5) Introduces the types of soils analyses necessary to understand the physical and chemical state of soils. Includes an introduction to soils in general, and local soils in particular. Prerequisite: B CHEM 153.

BES 318 Hydrogeology (5) NW, QSR Turner Examines details and mechanisms of the natural processes associated with the hydrologic cycle. Explores rivers, groundwater, and watershed management issues within Washington State.

BES 331 Estuarine Science and Management (5) NW Provides an overview of the formation, circulation, water quality, ecology, and environmental problems of estuaries. Students investigate the unique environments and processes of the Puget Sound watershed and interact with community members to learn about Puget Sound advocacy, management, research, and education efforts.

BES 341 Natural Hazards and Human Disasters (5) I&S/NW Investigates the distribution and impacts of natural hazards and what controls the magnitude and frequency of these events. Examines how cultural and social factors influence the hazard vulnerability of populations.

BES 362 Introduction to Restoration Ecology (5) I&S/NW Introduces ecological restoration of damaged ecosystems. Develops a broad understanding of restoration ecology, including diverse ecological aspects of the practice of restoration, conceptual and philosophical issues underlying the field, and social and political factors that influence restoration outcomes. Includes field work, lectures, readings, and discussion.

BES 397 Special Topics in Environmental Science (3-5, max. 15) Unique course offerings designed to respond to faculty and student interests. Possible topics may include economic and environmental issues, air pollution, water quality, ecological restoration, global warming, or conservation biology.

BES 398 Directed Study in Environmental Science (1-5, max. 15) Opportunity for directed group or individual research on a topic mutually agreed upon by instructor and student.

BES 415 Advanced Environmental Measurements Laboratory (5) Analysis of air, water, and soil samples using advanced methods. Instrumental methods include: atomic absorption spectroscopy and liquid chromatography. Prerequisite: BES 311, BES 315.

BES 439 Computer Modeling and Visualization in Environmental Science (5) NW, QSR Addresses the ways scientists use computer simulations and modeling. Uses case studies from problem areas such as global climate change, regional air and water pollution, and the interaction between biological species and their environment. Recommended: BES 311; BES 312.

BES 460 Water Quality (5) NW, QSR Examines the chemical and physical processes that influence the fate of nutrients and contaminants in natural surface, ground, and soil waters. Addresses basic environmental chemistry in natural waters and soils, potentially important inputs, transformations and movement, and the environmental impacts of nutrients and contaminants.

BES 462 Restoration Ecology Capstone: Introduction (2-) NW K EWING, J. FRIDLEY First of a three-course capstone sequence in restoration ecology. Students review and assess project plans and installations. Class meets with members of previous capstone classes to review their projects. Recommended: ESRM 462; ESRM 479. Offered: jointly with ESRM 462/TESC 462; A.

BES 463 Restoration Ecology Capstone: Proposal and Plan (3-) NW K. EWING, J. FRIDLEY Student teams prepare proposals in response to requests for proposals (RFPs) from actual clients. Clients may be governments, non-profit organizations, and others. Upon acceptance of the proposal, teams prepare restoration plans. Prerequisite: ESRM 462. Offered: jointly with ESRM 464/TESC 464; W.

BES 464 Restoration Ecology Capstone: Field Site Restoration (5) NW K. EWING, J. FRIDLEY Teams take a restoration plan developed in ESRM 463 and complete the installation. Team participation may include supervision of volunteers. Teams prepare management guidelines for the client and conduct a training class for their use. Prerequisite: ESRM 463. Offered: jointly with ESRM 464/TESC 464; Sp.

BES 485 Conservation Biology (5) NW Exploration of the science underlying methods of species and ecosystem conservation. Emphasis is placed on understanding the limits and promise of scientific approaches to conservation, within the social, political and economic context of conservation problems.

BES 486 Watershed Ecology and Management (5) NW Overview of the ecology and management of watersheds. Explores physical, biological, and ecological components of watersheds and their interrelationships. Examines human and natural impacts on watersheds, and planning and management through theory and case studies. Prerequisite: either BIS 390 or BES 312.
BES 487 Field Lab in Wildland Soils and Plants (3) NW Provides direct field study of alpine soils and plants. Identify soils and landscape/vegetation changes in remote areas where little information is available about these ecosystems. Experience climate, relief, and parent materials that form soils and their associated plant communities.

BES 488 Wetland Ecology (5) NW Examines wetland types and their distribution as well as wetland functions for habitat and human resources. Emphasizes the ecology and adaptations of wetland plants and their interaction with soils and biogeochemical processes. Discusses human impacts, wetland regulation, and management approaches. Required field trips. Prerequisite: BES 312.

BES 489 Pacific Northwest Ecosystems (5) NW Examines major ecosystems of the Pacific Northwest to understand the structure, function, and location of these characteristic ecosystems in our region. Investigates the intersection of ecological knowledge, environmental policy and management strategies in selected ecosystems. Recommended: one quarter college biology.

BES 490 Pacific Northwest Plants in Restoration and Conservation (5) NW Gold Examines plants of the Pacific Northwest commonly used in ecological restoration and habitat conservation. Topics include the ecology, propagation, distribution, restoration use, ethnobotany, and habitat values of major species. Includes required field trips and field study. Recommended: BES 180; BES 312; BES 362.

BES 491 Undergraduate Research in Environmental Science (5, max. 10) Capstone course. Independent research projects in an area of environmental science, based on mutual agreement with the instructor. Prerequisite: BES 311; BES 312.

BES 492 Capstone Research in Environmental Science I (3) The first course of a two-quarter capstone sequence. Students plan and develop a detailed proposal for their capstone environmental science project. Prerequisite: BES 301; BES 311; BES 315.

BES 493 Capstone Research in Environmental Science II (7) Second course of a two-quarter capstone sequence. Completion of projects planned in the previous quarter. Prerequisite: BES 492.

BES 497 Special Topics in Environmental Science (3-5, max. 15) Topics may include economic and environmental issues, air pollution, water quality, ecological restoration, global warming, conservation biology or other topics.

BES 498 Independent Research in Environmental Science (1-5, max. 15) Individual advanced research conducted under the direction of one or more instructors.

Interdisciplinary Arts and Sciences - Bothell

BIS 202 Critical Reasoning (5) I&S, QSR Engages students as active thinkers in their reading, analysis of writing and media, and writing. Emphasis is placed upon formulating, and critically evaluating arguments in examples and essays typical of both academic inquiry and active citizen engagement in everyday life.

BIS 203 History of Inter-Arts (5) VLPA Kochhar-Lindgren Considers InterArt forms as a method for creating new arts practices and cultural insight. The range of intersections may include, arts and sciences, literature and performance, film and dance, and painting and poetry.

BIS 204 Introduction to Journalism (5) VLPA/I&S Covers the basic elements of reporting and writing for print media, as well as meta-issues of ethics, the First Amendment, and a brief history of American journalism. Teaches reporting skills and the cultural context for the practice of those skills.

BIS 205 Technologies of Expression (5) VLPA/I&S Kochhlar-Lindgren Explores fundamental technologies of expression such as the book, film, and the computer and their implications for social and individual identity-formation, cultural critique, and art-making. Examines how media functions to shape human identity.

BIS 206 Engaging Literary Arts (5, max. 15) VLPA Heuving Foregrounds questions about literary arts: What are the purposes of literary arts? What approaches might we use to understand them? How to they relate to the societies and cultures in which they are located? May focus on individual writers, movements, historical periods, genres, or topics.

BIS 208 Experimenting Through the Arts (5, max. 15) VLPA Heuving Explores the relationship between creative arts and research. May focus on performance, visual, or literary arts as well as diverse media. Research may include study of artistic forms as well as specific topics.

BIS 209 Engaging Visual and Media Arts (5, max. 15) VLPA Foregrounds questions about visual arts: What are the purposes of the visual arts? What approaches might we use to understand them? How do they relate to the societies and cultures in which they are located? May focus on individual writers, movements, historical periods, genres or topics.

BIS 212 Engaging Performing Arts (5, max. 15) VLPA Kochhar-Lindgren Foregrounds questions about performing arts: What are the purposes of the performing arts? What approaches might we use to understand them? How do they relate to the societies and cultures in which they are located? May focus on individual performers, movements, historical periods, genres, or topics.

BIS 215 Literature into Film (5) VLPA Behler Studies the process of artistic adaptation by examining how significant literary works are translated into the medium of film. Explores the respective strengths and possibilities as well as the unique challenges, of literary and cinematic communication.

BIS 216 Introduction to Cultural Studies (5) VLPA/I&S Burgett, Harewood, Krabill Introduces cultural studies as an interdisciplinary field and practice. Explores multiple histories of the field with an emphasis on current issues and developments. Focuses on culture as a site of political and social debate and struggle. Equivalent to ENGL 207.

BIS 217 Introduction to Debate (5) I&S Carlisle Introduces the practice or argumentation and debate. Focuses on how to compose an argument, construct a case, methods of attack and defense, effective communication strategies, and variations in debate style.

BIS 218 The Power of Maps (5) I&S Jung Introduces maps, cartography, and geographic visualization, with an emphasis on digital and GIS maps on the web. Addresses maps and human understanding, map abstraction and generalization, and key map elements.

BIS 219 The Politics of Sex Education (5) I&S Lerum Examines the history and politics of sex education, reproduction, and sexual health in the United States, with cross national/regional comparisons. Explores how various cultural and ideological positions bring about different concepts of sexuality, the body, rights, personhood, and social and global responsibility.

BIS 220 Developmental Psychology (5) I&S Overview of the physical, cognitive, emotional, and social aspects of human development over the lifespan. Facilitates a greater understanding of children, adolescents, and adults as they develop and change over time in specific cultural contexts.
BIS 221 Gender and Sexuality (5) I&S Explores gender and human sexuality by focusing on diversity and development. Considers behavioral, social, historical, and cultural aspects.

BIS 222 Travel and Cultural Difference (5) I&S Uses historical, scholarly and popular sources to explore the purposes and forms of travel. Asks how travelers meet and understand other people, and how they explain those encounters. Travelers studied may include pilgrims, migrant, refugees, missionaries, merchants, scientists, colonial administrators, and tourists.

BIS 223 Introduction to Narrative Ethnography (5) I&S Seaburg Introduction to narrative ethnography. Focuses on the making of narrative ethnographic knowledge (observing, asking, listening, analyzing, writing up) through experiential exercises.

BIS 224 Introduction to Feminist Studies (5) I&S, DIV Ashbaugh Introduces feminism as it developed over the last two centuries. Investigates theories of gender and power, including the sources of and solutions to gender inequality, and how gendered identities have been produced, questioned, and critiqued.

BIS 225 Applied Social Psychology (5) I&S Stewart Provides an introduction to social psychological theories, foundations, methods, and evidence concerning how people think about, feel about, relate to, and influence one another. Focuses on applying social psychological theories and approaches to understanding social and practical problems.

BIS 226 Foundations of U.S. Social Service (5) I&S Carlisle Introduces the field of social services in the U.S., including its organization, forms of professional practice, and historical development. Focuses on social welfare: theory, court decisions, case studies, and policy. Considers competing assumptions about and approaches to solving social problems.

BIS 230 Mathematical Thinking for the Liberal Arts (5) NW, QSR Develops mathematics from historical, intellectual, and applied perspectives. Designed to broaden concepts of the meaning of mathematics, develop mathematical thinking, and encourage the use of mathematics in meaningful applications.

BIS 231 Linear Algebra With Applications (5) NW, QSR Hillyard, Littig Introduction to linear algebra (i.e., concepts, tools, and operations related to matrices and vectors) with emphasis on interdisciplinary applications. Provides an introduction to the mathematical concepts, arguments, and proofs that occur in linear algebra. Prerequisite: B CUSP 124.

BIS 232 Introduction to Data Visualization (5) NW, QSR Hillyard, Littig Introduces descriptive statistics and visual representations of quantitative data. Examines data sets using graphing and statistical software packages. Demonstrates how to present data in ways that are accurate, effective, and visually appealing.

BIS 233 Participatory Media Culture (5) VLPA/I&S Develops new media literacies that enables students to navigate, critique, and actively participate in the development of new media forms.

BIS 235 Critical Media Literacy (5) I&S Harewood, Jones, Krabill Explores how contemporary media communicate and produce meaning with the goal of developing students’ abilities to engage critically with their various media environments. Examines, interprets, and evaluates technologically mediated communications in order to critically assess their social, cultural, and political meanings and implications.

BIS 236 Introduction to Interactive Media (5) VLPA/I&S Gregory Explores the role of interactive media in shaping society and culture.

BIS 240 Introduction to Sustainable Practices (5) I&S/NW Introduces contemporary practices of environmental sustainability. Examines permaculture, sustainable building, life cycle analysis, renewable energy, soil amendments, and recycling. Provides hands-on experience in the implementation of sustainable practices.

BIS 241 Nature in the Northwest (5) NW Gold, Groom, Stokes Examines local and regional ecosystems and their interaction with human communities. Applies approaches from the environmental sciences and the practice of natural history to develop an understanding of ecosystem functions, organisms, and their relationships.

BIS 242 Environmental Geography (5) I&S/NW Turner Investigates the interactions of a dynamic planet and society. Analyzes geographic variability and the human consequences of environmental phenomena such as climate, natural resources, natural hazards, and infectious diseases. Emphasizes the application of geographic tools and methods.

BIS 243 Introduction to Environmental Issues (5) I&S/NW Stokes, Turner Introduction to the major environmental challenges confronting society, and the science of understanding and addressing those challenges. Provides an overview of major issues such as global climate change, biodiversity loss, and sustainability; as well as in-depth understanding of specific issues.

BIS 244 Wetlands Discovery (2-3) NW Gold, Turner Provides an experimental introduction to environmental science, education, and policy through an exploration of wetland ecosystems. Explores how humans interact with wetlands ecosystems. Stresses active learning in relation to the campus wetlands.

BIS 250 How Things Work: Motion and Mechanics (5) I&S/NW Collins Introduces basic scientific concepts needed to understand technologies encountered in everyday life. Themes may include the physics of motion and thermodynamics, and the applications in heating/cooling and transportation. Readings focus on the history of science and invention.

BIS 251 How Things Work: Electricity and Invention (5) I&S/NW Collins Introduces basic scientific concepts needed to understand technologies encountered in everyday life. Focuses on electricity and its applications in various electronic devices, appliances, and systems. Readings in the history of technology develop the context in which discovery, invention, and innovation unfold.

BIS 255 Critical Diversity Studies (5) I&S, DIV Introduces theories, concepts, research, and policies that provide a foundation for exploring connections between diversity and equity and for recognizing ways in which these connections are relevant to individuals, institutions, and the world. Offered: jointly with B EDUC 255.

BIS 256 Introduction to African American Studies (5) I&S, DIV Introduces the history, culture, and politics of people of African descent in inside and outside the United States.

BIS 257 Introduction to Asian American Studies (5) I&S Introduces the history, culture, and politics of people of Asian descent in local and global contexts. Draws from history, literature, humanities, philosophy, the arts, film, and related areas of inquiry to examine power and politics in the Asian American experience.

BIS 258 Introduction to United States Latina/Latino Studies (5) I&S Introduces the history, culture, and politics of people of Latin descent in local and global context. Draws from history, literature, humanities, philosophy, the arts, film, and related areas of inquiry.

BIS 260 Introduction to World Religions (5) I&S Explores the world’s major religious traditions. Stresses the wide range of perspectives within each tradition, their porous boundaries, contested beliefs, and multiple practices as they have adapted to new circumstances and the needs of changing communities over time.
BIS 264 Africa on Film (5) VLPA/I&S Krabb Illntroduces historical and contemporary issues facing the continent of Africa through an examination of films dealing with African themes. Adresses the strengths and weaknesses of how African issues are depicted within and outside the continent.

BIS 265 Multicultural America (5) I&S, DIV Banks, Goldberg Introduces the concept and practice of multiculturalism in the United States and beyond it borders. Focuses on differences of power, perspective, and privilege. Explores opportunities and strategies for alliance and coalition. Stresses diverse interpretive and methodological approaches in American Studies.

BIS 266 United States History to 1865 (5) I&S Examines key events and problems in U.S. history from European-Native American contact to the end of the Civil War. Focuses on the practice of "doing history" by applying historical thinking skills to a wide range of primary documents.

BIS 267 United States History from 1865 (5) I&S Examines key events and problems in U.S. history from the Civil War to the recent past. Focuses on the practice of "doing history" by applying historical thinking skills to a wide range of primary documents.

BIS 270 Abnormal Psychology (5) I&S General instruction to the study and treatment of psychopathology. Covers research on and theories about definitions and "causes" of psychological problems from a variety of perspectives. Addresses some of the major classes of mental health problems, such as mood and anxiety disorders, their causes and treatment.

BIS 271 History of Psychology (5) I&S Examines the roots of contemporary psychology as an academic discipline and as a profession. Focuses on approaches to the history of psychology, philosophical viewpoints that led to a new psychology in the late 19th century, and major schools of thought in the 20th century psychology.

BIS 275 Social Problems (5) I&S Explores how challenges to society; such as crime, violence, injustice, poverty, and disease; are framed as social problems and then related to solutions. Examines the role of major institutions in problem identification, the power of language and media, and how social agendas are determined.

BIS 280 U.S. Political Processes (5) I&S Studies interaction between U.S. governmental institutions at all levels and civil society. Examines a variety of theoretical viewpoints and the relationships between private and public institutions, behaviors, and traditions.

BIS 281 Global Politics (5-) I&S Dolsak Surveys key global challenges, the ways to address them, and the involved actors. Challenges include alleviation of poverty, protection of human rights, globalization, demographic changes, resource depletion and pollution, ethnic and international conflict, and terrorism. Actors include national and sub-national governments, international governmental organizations, alliances, non-governmental organizations, and for-profit organizations.

BIS 282 Globalization (5) I&S Dolsak Investigates different meaning of the claims about globalization, a term often used to describe processes of change that take place across and outside of national contexts. Critically examines contemporary global processes in order to explore their impacts on our lives.

BIS 284 International Relations (5) I&S A survey of basic themes in international relations within the context of diplomatic history and American foreign policy. Emphasis is on basic motivational drives of world politics, including national interests, ideology, morality, and nationalism. Discussion of war, diplomacy, American foreign policy, and international organization sheds light on the perennial struggle for power among nations, the security dilemma and instruments of global cooperation.

BIS 293 Special Topics (2-5, max. 15) Examines different subjects or problems from an interdisciplinary framework.

BIS 294 The Arts of Collaboration: Working in Teams (5) Explores the theoretical foundations for effective team leadership, collaboration, and shared decision making. Develops team leader and member competencies.

BIS 295 Community-Based Practice (5, max. 15) Links academic study to experiential and community-based learning conducted on- or off-campus sites. Topics and sites may vary with instructor.

BIS 300 Interdisciplinary Inquiry (5) Introduction to advanced work in interdisciplinary studies centered on broadly based questions and problems. Stresses the skills necessary to engage in upper-division research and learning in the Interdisciplinary Arts and Sciences Program.

BIS 301 Narrative Forms (5) VLPA Behler, Seaburg Examines the form, function, and textual conventions of such narrative forms as (auto) biography, personal experience narratives, short stories, and novels. Explores literary language useful for discussing narratives, how narratives work for their readers/listeners, and what interpretive tools readers/listeners bring to narratives.

BIS 302 Issues in Mathematics Across Cultures (5, max. 10) I&S Hilyard, Littig Examines the role of mathematics in informing and shaping human understanding of the world. Explores contemporary and historical issues in the development and application of mathematical theories and philosophies. Focus varies with instructor and may include ethnomathematics, women in mathematics, media representations of the mathematical sciences, and mathematics and warfare.

BIS 305 Issues in Social and Political Philosophy (5, max. 10) I&S A philosophical investigation of conceptual and normative issues associated with one of several broad domains of social and political thought: human rights, the varieties of human conflict, war and peace. Examines both classical and recent texts. Brings theoretical perspectives to bear on contemporary issues.


BIS 307 Environmental Justice (5) I&S Atkinson, Ottinger Explores issues of social equity associated with environmental hazards, risks, and benefits. Examines the ways social structures, environmental decision-making procedures, and scientific and technological practices distribute the burden of environmental problems, as well as community response through political action and cultural production.

BIS 308 Issues in Philosophy and Culture (5, max. 10) Examines a central problem associated with the nature, varieties, values, and transmission of cultures. Alternative problems to be emphasized include the cultural relativity of truth and value, multi-cultural education, and knowledge and practice. Emphasizes philosophical texts. Also considers writings from sociology, anthropology, history and literature.

BIS 309 History of Dance in Europe and America (5) VLPA Discussion of the major developments in European and American dance history. Dances from the court, ballroom, and theater including masterpieces from the modern repertoire. Based on primary source material and film
recreations that document dance's social and theatrical role from the Renaissance to the present.

BIS 310 Women, Culture, and Development (5) I&S, DIV Shayne Facilitates a critical understanding of the social, cultural, political, and economic positions of women in the developing world. Addresses colonialism and post-colonialism, feminist theories of development, and practices of globalization.

BIS 312 Approaches to Social Research (5) I&S Deals with the why and how of social research. Covers two main themes: the epistemology of social science and the logic of research design. Students learn to assess the strengths of various methodologies, evaluate research results, and initiate future inquiries of their own.

BIS 313 Issues in Media Studies (5, max. 15) VLPA/I&S Examines a variety of issues involved in understanding different forms of media and their impact on our lives, in contexts spanning from local to global, using a wide range of theoretical, disciplinary, and methodological approaches.

BIS 314 Topics in Geography (5, max. 10) I&S Topics/areas of study may include: cultural geography, physical geography, geography of globalization.

BIS 315 Understanding Statistics (5) I&S/NW, QSR Presentation of key concepts for understanding and judging reports of statistical analyses and for performing and reporting valid statistical analyses using a limited set of measures and tests.

BIS 316 Topics in Psychology (5, max. 15) I&S Examination of a specific topic in order to provide a deeper understanding of a particular aspect of psychology. Topics may include the history of psychology; human memory; dreaming; cognitive psychology.

BIS 317 Language, Society, and Cultural Knowledge (5) VLPA/I&S Explores the determining role of language in human communication, culture and worldview; and the implications of language structure and content to forms of communicative interaction. Review and critique of theories of language as a social phenomena.

BIS 318 Education and Society (3) I&S Examines educational problems, policy, and practice from interdisciplinary perspective. Explores the tensions between education values and goals throughout the history of public schooling in the United States and develops critical perspectives through which to evaluate current proposals for school reform.

BIS 320 Comparative Political Economies (5) I&S Examines the production and distribution of goods; the organization of labor, and systems of wealth and power in diverse cultural settings within and outside the realm of "classical" capitalist development. Analyzes interactions between political constituencies and the economies they attempt to govern.

BIS 322 Topics in Performance Studies (5, max. 15) VLPA Examination of a specific topic in order to provide a deeper understanding of a particular aspect of the study of performance. Topics may include transnationalism and performance; eco-performance, community performance; African and Asian theatre. Topics and approaches may vary with instructor.

BIS 325 Disability and Human Rights (5) VLPA/I&S, DIV Considers the intersections between human rights discourse and disability studies in relation to questions of community formation and social action. Addresses three primary areas: the arts, activism, and the law.

BIS 326 Twentieth Century Eastern Europe (5) I&S The recent revolutions in Eastern Europe threw off totalitarian regimes and replaced them with diverse and emerging cultural, political, and economic forms.
research methodologies, and to carry out research assignments. Explores ethnogetic, textual, and arts-based methods.

BIS 341 Topics in the Study of Culture (5, max. 15) Examines the study of cultural forms, artifacts, and practices. May include art, art history, literature, theater, music history, ethnomusicology, dance, and/or religion. Topics and approaches may vary with instructor.

BIS 342 Geographic Information Systems (5) I&S Examines the concepts and methods of geographic information systems (GIS) and related elements of spatial analysis and representation. Through projects and lab exercises, student gain basic proficiency in the use of GIS and an interdisciplinary understanding of the applications of GIS.

BIS 343 Geographic Visualization (5) I&S, QSR Focuses on different geovisualization techniques to represent physical, social, and cultural phenomena associated with spatial data and designing maps. Addresses GIS programs and explores how geovisualization can be applied to various research and policy areas.

BIS 345 American Environmental Thought (5) I&S Explores the development of current ideas about nature and the relationship between humans and the natural world, as expressed in literature and other cultural forms. Emphasizes historical, cultural, philosophical, and global dimensions of American environmental thought, along with implications for human interactions with the environment.

BIS 346 Topics in Environmental Policy (5, max. 10) Examines specific topics in environmental policy in an interdisciplinary context, combining considerations of politics, policy, economics, and science. Emphasizes quantitative analysis and scientific method.

BIS 347 History of American Documentary Films (5) VLPA/I&S Exploration of the important technological and cinematic innovations of non-fiction films within their cultural contexts, and examination of theoretical issues such as objectivity and the blurred line between fact and fiction. Stresses the skills necessary for the critical evaluation and interpretation of documentary films.

BIS 348 Cultural Psychology (5) I&S Addresses the ways that cultural traditions and social practices both reflect and transform psychological experience. Examines both new theoretical and empirical work in cultural psychology and the intellectual roots of cultural psychology. Explores the implications of a cultural perspective for the larger projects/concerns of the field of psychology.

BIS 349 Personality Psychology (5) I&S Steward Introduces the field of personality psychology and the scientific study of psychological individuality. Addresses three key approaches to personality; basic traits; motives, goals, schemas, and tasks; and broad and culturally shaped life stories that provide identity, purpose, and meaning. Integrates classical personality theories and contemporary research in the field. Not open for credit to students who have taken PSYCH 203 or PSYCH 303 at the Seattle Campus.

BIS 350 The Concept of Number (5) NW, QSR Examines the concept of number from an historical perspective and the modern mathematical perspective. Stresses the new properties of “number”, starting with counting numbers and progressing to the concept of a field.

BIS 351 Topics in American Culture (5, max. 15) Explores a particular topic in American culture that highlights the methodological tools needed to integrate the interpretation of cultural texts, including literature, film, music, and art, with their historical contexts.

BIS 352 Mapping Communities (5) I&S Examines the concept of community. Explores the intersections of life in urban areas including perception and interaction with built environments, political and economic relationships, and social and cultural ties.


BIS 354 Modern European Intellectual History (5) VLPA/I&S Explores key figures and intellectual debates of Western modernity, and of major literary movements (romanticism, realism, modernism). Analysis of seminal texts such as Rousseau’s Discourse on Inequality, Flaubert’s Madame Bovary, Nietzsche’s Genealogy of Morals, and Woolf’s To the Lighthouse.

BIS 355 History of Science and Technology (5) I&S Examines the historical development of science and technology and their interaction with social, cultural, and political forces across time and space.

BIS 356 Ethics and the Environment (5) I&S Examination of the “environmental crisis” and associated social conflicts, tracing them to their philosophical roots. Focuses on the facts of the current situation, on classic and recent readings from the environmental literature, and on ethical responses to current issues.

BIS 357 Native American Religious and Philosophical Thought (5) I&S An exploration and comparison of religious and philosophical themes developed by tribal peoples in the New World; an analytical examination of various forms of religious and philosophical expression and how they relate to our human sense of an existing moral order.

BIS 358 Issues in Environmental Science (5, max. 10) I&S Examines environmental problems from stratospheric ozone depletion to the preservation of endangered species to acid rain. Focuses on methods of analysis from the physical and life sciences as well as economics, psychology and related fields. Examines issues within their larger social, historic, and political contexts.

BIS 359 Principles and Controversies of Sustainability (5) I&S Examines the challenges, principles, and controversies of sustainability. Analyzes the sustainability issues, identifying the values underlying societal actions and conflicting perspectives, and considers the ecological, ethical, and human well-being ramifications of following different sustainability proposals and cultural trajectories.

BIS 360 Studies in American Literature (5, max. 10) VLPA Examines important literary movements and literary genres with attention to their historical context. Emphasizes issues of race, class, and gender.

BIS 361 Studies in American Literature (5, max. 10) VLPA Examines the experiences of women around the globe from a variety of disciplinary perspectives; world systems theory, feminist sociology and anthropology. Examines women’s lives with respect to various institutions: politics, the family, education, as well as at the micro-level in the home, in day-to-day interacting and in relationships.

BIS 362 Nineteenth-Century American Literature (5) VLPA Examination of significant writers and literary developments within nineteenth-century American culture and society. Addresses issues surrounding the formation of an American literary canon. Stresses themes and methods for advanced literary interpretation within American Studies.

BIS 363 Twentieth-Century American Literature (5) VLPA Examination of significant writers and literary developments within twentieth-century American culture and society. Addresses issues surrounding the formation of an American literary canon. Stresses...
themes and methods for advanced literary interpretation within American Studies.

BIS 373 Cultural History of Rome (5) VLPA/I&S Intense study of the urban space of Rome as a cultural center from its origins to the modern era. Examines Roman influence over time covering the republican, imperial, and papal phases of this city as illustrated through the visual record of buildings, gardens, sculpture, mosaics, and paintings.

BIS 374 Middle East Politics (5) I&S Examines major socio-economic and political themes in the Middle East from colonialism to the present. Topics may include: emergence of republics/monarchies, gender and patriarchy in the Middle East, Arab Nationalism, Palestinian-Israeli conflict, politics of oil, and political Islam.

BIS 375 Mexican Art and Culture (5) VLPA/I&S Studies the art, politics, and culture of modern Mexico with an emphasis on 1900 to the present.

BIS 376 Circa 1500: Arts of West and East (5) VLPA Cultural history through the arts with emphasis on the era of early European expansion into Africa, the Americas, and Asia. Focuses on parts of the Mediterranean and Northern Europe, Islamic spheres of the ancient Near East and Africa, the Aztec and Inca cultures, Ming China, and Muromachi Japan.

BIS 377 Student Research Collaboratory (2, max. 6) Kochis Student design and implement research projects on interdisciplinary education and student life with reference to their IAS education. Credit/no-credit only.

BIS 378 The Language of Poetry (5) VLPA Study of how poetic meanings are formed and interpreted. Explores different forms of poetry within diverse cultures and historical times.


BIS 380 Bioethics (5) I&S Crane Explores concepts and questions in the field of bioethics and addresses key debates from different philosophical, social, and cultural perspectives.

BIS 381 The History of Life (5) I&S/NW, QSR Price Explores the principles of evolution by examining the fossil record, focusing on how past events shaped today's biodiversity. Engages with contemporary controversies regarding scientific literacy.

BIS 382 The Visual Art of Biology (5) VLPA/NW Price Explores the intersection of biology and art through representations of nature in illustrations, photography, and film. Examines the effect of technological discoveries such as the telescope, microscope, and camera that shape and enhance our representations of nature.

BIS 383 American Art and Architecture (5) VLPA Explores major trends in American art comprising painting, sculpture, architecture, urban design, and the decorative arts from 1600 to present.

BIS 384 Health, Medicine, and Society (5) I&S Examines health, disease, and healing as social phenomena. Explores the nature and experience of illness through the study of patients, communities, healthcare providers, and medical systems in different cultural, social, political, and economic contexts.

BIS 385 Cross-Cultural Oral Traditions (5) VLPA Examines oral traditions from around the world. The primary focus is on folklore, although the genres of myths, tales, personal experience narratives, and jokes may be explored. Introduces several theoretical approaches to analyzing the content, style, and structure of oral traditions.

BIS 386 Global Environmental Issues (5) I&S/NW Addresses the connections between local activities and the global environment; the scientific approach to these problems (both quantitatively and qualitatively); and policy implications.

BIS 387 Women and American Literature (5, max. 10) VLPA Study of women writers and the ways women have been portrayed in literary texts. Focuses on certain themes, such as selves and subjectivities, or on writers from specific historical, economic, ethnic, or racial backgrounds.

BIS 388 The Philosophy and Science of Quantum Mechanics (5) NW, QSR Explores the basic philosophical and scientific concepts of quantum mechanics. Uses the historical development of quantum mechanics to develop its general principles and create an understanding of the scientific method. Examines the relationships between scientific observations, concepts, and theories.

BIS 389 American Indian Literature (5) VLPA/I&S A survey of both traditional and contemporary American Indian literary genre; oral and written modes of expression, including oral narratives, autobiography, oratory, traditional and contemporary poetry, fiction.

BIS 390 Ecology and the Environment (5) NW A general introduction to ecology. Introduces the principles that govern how organisms interact with each other and with their surroundings.

BIS 391 Environmental History of the Pacific Northwest Bioregion (5) I&S/ Stokes Examines the history of the relationships between humans and their environments in the Pacific Northwest, from the time of earliest human inhabitants to the present, with particular reference to current environmental and resource issues.

BIS 392 Water and Sustainability (5) I&S/NW Provides an understanding of past and present water challenges and some of the possible opportunities for solving them. What is the state of water in the United States and how did we get to this point? Examines the future prospects for wisely using water resources.

BIS 393 Special Topics (3-5, max. 15) Various topics designed to respond to faculty and student interests and needs.

BIS 394 Comparative Economic Development (5) I&S Introduces a variety of issues affecting Third World economies in a framework that emphasizes their particular and varied post-colonial histories. Draws on economic theory, cultural and economic anthropology, literature, and other sources to understand institutions and sources of change in these economies.


BIS 396 Topics in Sustainability (5, max. 15) Examines topics in sustainability. Includes social, political, historical, cultural, artistic, economic, or scientific explorations of sustainability issues.

BIS 397 Topics in Environmental Studies (5, max. 15) Examines topics in Environmental Studies. Includes social, political, historical, cultural, artistic, economic, or scientific explorations of environmental issues.

BIS 398 Directed Study/Research (1-5, max. 15) Opportunity for
directed group or individual research on a topic/theme mutually agreed upon by instructor and student.

BIS 399 Portfolio and Career Development (2, max. 6) I&S Explores connections between academic and career portfolio development. Students assemble, critically reflect on, discuss, and present their work in these two contexts. Prerequisite: BIS 300.

BIS 400 Modern Japan (5) I&S History of Japan from the beginning of the Tokugawa period to the present. Covers the principal ideas and institutions of the feudal period, and the impact of the West during the Meiji period. Explores the struggle of modern Japan to maintain its cultural identity while becoming a powerful modern state.

BIS 401 Topics in Economic History and Analysis (5, max. 10) I&S Selected economic studies. Possible topics include history of monopoly and antitrust policy, economic regulation, structural change in the U.S. economy, labor economics, and the Industrial Revolution. Recommended: prior course in economics.

BIS 402 Modern China (5) I&S History of modern China since the beginning of the Qing dynasty, 1644 to the present. Focuses on the major social, political, and economic developments, and on the relationships between ideas and institutions. Topics include the impact of the West and changes resulting from internal causes.

BIS 403 Washington D.C. Seminar on Human Rights (5) Examines human rights as a philosophical concept, an historical movement, and a contemporary political phenomenon, both in its inherently international scope and in its distinctly U.S. expression in congressional and executive-branch processes. Uses expert guest speakers, both on campus and in Washington, D.C., as major learning resources, along with readings and written assignments.

BIS 404 Twentieth-Century Russia (5) I&S History of Russia from the reign of Nicholas II to the present. Covers the main cultural, political, social, and economic events from the end of the Imperial period through the founding of the Soviet Union to the remarkable dismantling of Soviet institutions by Mikhail Gorbachev in the present.

BIS 405 Environmental Education (3) NW Analyze various environmental programs and prepare an individualized project. Learn to apply ecological concepts in the classroom and learn how to teach about various environmental education programs.

BIS 406 Urban Planning and Geography (5) I&S Examines historical and modern conceptualizations of "urban", covering topics such as urban systems, urban forms, urban ecologies, urban planning, and urbanism. Investigates the integration of built forms; human interactions; and the environmental, social, political, and economic aspects of urban places.


BIS 409 Modern Germany (5) I&S Interdisciplinary study placing the emergence of contemporary Germany in its larger historical context. Explores important eras of German history and focuses on major aspects of post-war economic, political, and cultural life in order to grasp the unique role that Germany has come to play in the European community of today.

BIS 410 Topics in Qualitative Inquiry (5, max. 15) I&S Provides a background for understanding qualitative inquiry. Focuses on ethnographic inquiry and interpretative cultural analysis. Discusses forms of data collection such as observation, participant observation, and interviewing. Also stresses strategies for data analysis and for handling qualitative data.

BIS 411 Biotechnology and Society (5) I&S Clarifies the scientific, political, economic, and ethical dimensions of new genetic technologies. Explores the tension between biotechnology as a source of economic opportunity and as a potential threat to the environment and human freedom, and the role of government in promoting and regulating science and technology to resolve this tension.

BIS 412 Ideas in Political Economy (5) I&S Surveys the rich intellectual tradition in political economy, from classical writings to the present. Provides a critical perspective on the development of modern capitalism.

BIS 413 Nations and Nationalism (5) I&S Examines modern nationalism as a vast, contested, and crucial subject. Addresses current theories and historical evidence about the origin and nature of nationalist ideologies and their relationships to the modern nation-state.

BIS 414 Topics in Human Rights (5, max. 10) I&S Explores a critical issue of human rights theory and practice and its intersection with the other fields of thought and disciplines. Topics may include such issues as the rights of children, workers, or women; or the relationship of human rights to democracy, globalization, and the arts.

BIS 415 Public Policy and Law (5) I&S Examines the different histories of and processes by which law and public policy create rules that govern a society. Discusses the nature and influence of law and policy in our society via a sociological perspective.

BIS 416 Problems in International Political Economy (5, max. 10) I&S Problems in world markets and political organization. Topics may include comparative industrialization, economic imperialism, the capitalist transition in Central Europe, and financial crises.

BIS 417 Paris: The City and Its History (5) VLPA/I&S Explores the issues of urban culture and history in the city of Paris. Uses pertinent primary and secondary texts to explore why Paris has been regarded as the jewel of European cities and what constitutes its sense of place.

BIS 418 Masculinity, Homoeroticism, and Queer Theory in American Culture (5) VLPA Exploration of the shifting and contradictory images and ideas of masculinity in American culture, focusing especially on the way masculinities are constructed in relations between men. Emphasizes advanced methods in American Studies.

BIS 419 Urban Politics and Policy (5) I&S Examines the historical, economic, and ideological foundations for urban governance within the American political system. Compares and contrasts urban politics and public policy implementation in selected U.S. cities and regions. Special emphasis on policy issues affecting political and economic development and the distribution of political power and social benefits.

BIS 420 Colonizing History in Sub-Saharan Africa (5) I&S Considers the history of colonization in Africa and the writing of that history, dealing with debates around post-colonial theory. Provides a better understanding of how relationships between Sub-Saharan Africa and other parts of the world have developed, and how we have come to understand those relationships.

BIS 421 Technology Policy (5) I&S Examines the role of public policy in managing the tradeoffs between benefits and risks of new technology. Discusses how to evaluate U.S. technology policies against the standards of democracy, economic efficiency, and social justice.

BIS 422 Clinical Psychology (5) I&S Stewart Explores the intellectual, emotional, biological, psychological, and behavioral aspects of human functioning. Topics include maladjustment and adjustment, discomfort,
disability, and adaption. Specifically addresses assessment and diagnosis; theory and strategies of intervention; ethics and standard, research methods; and training and specializations.

BIS 423 The City in American Culture (5) VLPA/I&S Explores the contested terrain of urban landscapes in American culture by interpreting literature, film, and other cultural texts within their historical and geographical context. Uses methods and knowledge gained from introductory American Studies courses to focus on specific themes.

BIS 424 Topics in American Studies (5, max. 15) Examination of a specific topic in order to provide a deeper understanding of a particular aspect of American culture.

BIS 425 Topics in U.S. Social and Political History (5, max. 15) I&S Intensive examination of a particular topic on American institutions, ideologies, movements, and social conditions.

BIS 426 Comparative Urban Politics (5) I&S Compares processes of urban governance and the politics of central-local relations in various advanced industrial societies. Analyzes urban public policies and the distributions and effects of political and economic power in selected cities are analyzed. Draws contrasts with Third World cities and explores global processes of urbanization.

BIS 427 Global History I (5) I&S Provides a global perspective on the history of the human community from hunting-gathering times to the end of the formative stage of human cultures. It is divided into eleven main areas of focus: world origins, human origins, environment, society, politics, economics, technology, art and religion, disease, and migration.

BIS 428 Global History II (5) I&S Provides a global perspective on the human history to the beginning of the modern age. It is divided into ten main areas of focus: indigenous peoples, disease, gender, Indian Ocean, Arab Trading Network, maritime exploration, Atlantic Trade, world population, the gun powder empires, and the rise of the nation-state.

BIS 429 Global History III (5) I&S Provides a global perspective on human history from the scientific revolution to the present. Explores ten main areas: the scientific revolution, nationalism, the industrial revolution, the various economic systems, colonialism, war, crisis of ideas, global society, the environment, and a look into the twenty-first century.

BIS 430 Social Theory and Practice (5, max. 10) Focuses on a particular concept or problem in social theory and practice, such as the nature of community, the meaning and value of professionalism, the varieties of human conflict, human rights.

BIS 431 Issues in Sexual Politics and Cultures (5, max. 10) I&S Examines the ways that sexual beliefs, practices, identities, and behaviors are connected to various cultural, economic, political, and historical forces. Ideally builds on students' previous critical study of sex and sexuality, either at the UW or elsewhere. Specific focus and topic varies with instructor.

BIS 432 Democracy in Asia (5) I&S Explores the institutional heritage of selected Asian countries, principally China, Japan, Korea, and Taiwan, and evaluates their suitability to democratic institutions. Frequent comparisons with the growth of representative democracy in the West.

BIS 433 Gender, Work, and Family (5) I&S, DIV Examines the interlocking institutions of gender, work, and family. Explores the impact of changing patterns of work on the lives of men and women and the effect of changes in work and occupations on demography and family patterns.

BIS 434 Psychology and the Visual Arts (5) VLPA/I&S Explores the visual arts experience in many of its psychological, social, and cultural dimensions. Topics include visual perception and cognition, the process of assigning personal meaning and value to art, and the role of the visual arts in individual and community identity development and change efforts.

BIS 435 Interactive Learning: Theory and Practice (5) I&S Examines theories that support interactive learning-including constructionist, critical, and experientially based views. Emphasizes multiple dimensions of the learning situation. Mainly theory, with opportunities to relate practice to theory.

BIS 436 Comparative Family Systems (5) I&S Provides comparative analyses of family life in various cultures and societies. Topics include family organization, family and kinship structure, marital and parent-child relationships, socialization, aging and familial roles. Examines methods for conducting comparative research.

BIS 437 Narrative Psychology (5) I&S Examines the ways narrative has been used in psychology theory, practice, and research. Introduces narrative concepts and analysis techniques, examines how diverse cultural contexts shape personal stories, demonstrates narrative research strengths, and explores the ways larger social narratives can affect individual actualization.

BIS 438 Prevention and Promotion (5) I&S, Stewart Examines prevention and promotion, the two fundamental intervention approaches of community psychology. Explores the strategies employed for each, and the array of phenomena, or variables, they address. Focuses on applications at the small group, community, and socio-cultural levels of analysis. Prerequisite: BISC 343.

BIS 440 Topics in Everyday Social and Cultural Life (5, max. 15) I&S Intensive examination of a particular theme, tradition or problem in everyday social/cultural life. Topics may include living the good life; personal and interpersonal ethics; body, gender, society, and symbol; and psychology of gender.

BIS 441 Global Labor Markets (5) I&S Explores the history, theory, and institutions that affect labor’s position in an increasingly globalized labor market. Fosters critical inquiry upon the globalization of labor markets and makes connections between global markets and local employment conditions. Prerequisite: BISC 343.

BIS 442 Advanced GIS Analysis and Applications (5, max. 15) I&S Jung, Lopez Provides advanced training in Geographic Information Systems and other geospatial applications for display and analysis of environmental and socio-economic data. Prerequisite: BIS 342.

BIS 443 Educational Policy and the American Economy (5) I&S Examines relationships between the economy and our educational and training infrastructure: What are we doing and what should our educational policy be?

BIS 444 Issues in Comparative History (5, max. 10) I&S Explores different special issues in comparative history. Topics include histories of the world, imperialism and colonialism, nationalism and nation states, and the history of gender in the east and west.

BIS 445 Meanings and Realities of Inequality (5) I&S, DIV A socioeconmic investigation into the meanings and realities of inequality using a variety of theoretical frameworks and empirical research. Focuses on the determinants of economic mobility and social status. Addresses discrimination, poverty, welfare, and education.

BIS 446 Science, Expertise, and Public Policy (5) I&S Ottinger Addresses how we incorporate both public participation and expert advice into democratic decision-making. Acknowledges that science in
necessarily value-laden and that non-scientists often have salient knowledge, and examines how the tension between democracy and expertise has been reconciled in practices of, and proposals for, policy-making in Western democracies.

BIS 447 Topics in Quantitative Inquiry (5, max. 15) NW, QSR
Examiners methods for quantitative data analysis. Uses current software packages to model data. Topics vary with instructor and may include probability, surveys, regression techniques, forecasting and time series, decision-making, or spatial analysis and data maps. Recommended: previous coursework in quantitative methods such as BIS 315 or BIS 312.

BIS 448 Social Policy (5) I&S
Addresses the need for and purposes of US social policy by linking policy interventions and advocacy to social welfare. Examines causes and policy solutions to social welfare issues such as poverty, income, public assistance, food and housing, mental health and substance abuse, child welfare, and social security. Recommended: BIS 226.

BIS 449 Advanced Topics in Psychology (5, max. 15) I&S Stewart, Udell Advanced study of selected theoretical and research topics of contemporary interest in psychology.

BIS 450 Performance and Healing (5) VLPA/I&S
Investigates performance and healing to understand how a variety of performance forms including dance, theater, and music can provide vehicles for personal, social, and cultural healing.

BIS 451 Northwest Indian Myths and Tales (5) VLPA/I&S
Exploration of the rich oral traditional heritage of the Native peoples of the Pacific Northwest, emphasizing common features of content (plot, themes, and characters), style, and performance. Includes folkloristic, anthropological, and literary perspectives.

BIS 452 Marx, Nietzsche, Freud (5) I&S
Study of the challenges to the traditional Western conceptions of the self, history, knowledge, and art by these classic authors of modernity. Examines the critical impact of their writing within its historical and cultural context and the ongoing significance of their work through the study of prominent examples of contemporary theory.

BIS 455 Literature and Sexuality (5, max. 10) VLPA/I&S
Advanced study of the changing definitions and discourses of sexuality in the nineteenth and twentieth centuries and their relationship to literary representations. Stresses historical, psychoanalytic, and literary perspectives.

BIS 457 Thinking and Decision Making (5) I&S
Survey of research and theory on how people process information about others, and themselves. Topics include attention and memory for person information, social schemata, biases in attribution, perceived control, heuristics for rapid inferences, and how cognition relates to emotion and behavior.

BIS 458 Energy, the Environment and Society (5) I&S
Discusses energy production, distribution, and consumption in modern society. Topics include basic scientific, technological, economic, political and environmental issues and questions raised by the utilization of traditional and alternative energy sources.

BIS 459 Conservation and Sustainable Development (5) I&S/NW Groom
Examines the connections between human welfare and diverse and healthy ecosystems. Considers tensions among economic development, poverty eradication, and biodiversity conservation. Examines efforts to create sustainable development solutions to easing poverty and protecting biodiversity.

BIS 460 Topics in Critical Theory (5, max. 10) VLPA
Investigates theoretical approaches to the study of literature. Topics may range from chronicles of critical theories to psychoanalysis and literature, or the examination of individual theoreticians such as Michel Foucault.

BIS 461 Studies in U.S. Intellectual and Cultural History (5, max. 10) VLPA/I&S
In-depth investigation of a particular topic, theme, or tradition in the history of ideas or cultural practices in the United States. Builds on methods and knowledge gained in introductory American Studies courses.

BIS 462 The Culture of Cold War America (5) VLPA/I&S
Examines Americans’ ideas, values, fears, and desires during the Cold War era by considering the production, reception, and meaning of popular Hollywood films in their historical context.

BIS 463 U.S. Women’s History (5) I&S, DIV
Surveys the place of women in the United States from Native American-European contact to the present. Topics include comparative gender norms, women’s politics, gender and slavery, alliances and disagreements among women, women and work, courtship, sexuality, and marriage.

BIS 464 Topics in Advanced Cinema Studies (5, max. 15) VLPA
Builds on the analytical and methodological skills gained in 300-level cinema studies courses. Focuses on specific topics which examine cinematic texts and institutions and their complex interrelationships within modern culture.

BIS 465 Performance, History, and Memory (5-) VLPA
Kochhar-Lindgren
Investigates transnational performance forms as sites of memory, testimony, and archive. Explores the transmission of cultural knowledge in performance and how those traditions change as they travel across social, cultural, and geographic boundaries. Specific cultures examined vary by instructor.

BIS 466 Human Rights and Resistance (5) I&S
Kochis
Examines how cultural practice interacts with the modern human rights movement, exploring how cultural production such as music, literature, theater, or the visual arts can promote the human rights regime as it resists challenges to justice and human dignity.

BIS 467 Post-1945 U.S. Youth Culture: Culture, Theory, and History (5) VLPA/I&S
Examines the development of various youth cultures in post-World War II America. Examines the relationship between youth cultures, mass culture, and adult mainstream society, and the way each shape and is shaped by the other.

BIS 468 Human Rights and Sustainable Development (5) I&S
Kochis
Examines social aspects of a human right to sustainable development including education, democratic participation, the rule of law, human capabilities and functioning, nationality, religion, and a right to a safe environment.

BIS 470 Art, Politics, and Social Change (5) VLPA/I&S
Examines art forms as windows on changing political cultures and the role of artists as social critics and advocates of political change in diverse historical epochs and societies and in conjunction with selected modern political movements.

BIS 471 Women in Art (5) VLPA/I&S
Examines work of women artists and women in art. Explores women’s creative production, societal roles, and feminist critiques of the roles of women in art.

BIS 474 Topics in European Cultural History (5, max. 10) VLPA/I&S
Advanced interdisciplinary study of major periods, prominent movements, or representative figures of European cultural history. Gives special attention to the historical contexts and meanings of cultural life, as well as to the interrelations between the arts.

BIS 476 Issues in Art History (5, max. 15) VLPA/I&S
Explores diverse
issues in art history such as the history of photography, painting in the age of Rembrandt, and impressionism through surrealism.

BIS 478 Art Patronage and Markets - Seminar (5) VLPA/I&S
Examines the changing patronage for the visual arts from its roots in the privatized consumption of the early modern period to the development of a modern commercial market. Considers the artist's place, market manipulation, and the influence of museums and galleries on public taste.

BIS 480 International Study Abroad (2-5, max. 20)
Combines study at UW-Bothell with seminars and field trips organized by the Interdisciplinary Arts and Sciences faculty or the faculties of host institutions in foreign countries. Topics include politics, political economy, public policy, business, and literature, and the arts.

BIS 481 Modernism, Postmodernism, and American Literature (5) VLPA
An investigation into the multiple descriptions and definitions of Modernism and Postmodernism through the study of such twentieth-century writers as Eliot, Pound, Willi Stevens, Moore, Stein, Ashbery, Creeley, Antin, Hemingway, Dos Passos, Faulkner, Ellison, Barnes, Bowles, Paley, Morrison, and Silko.

BIS 482 Problems in Interdisciplinary Science (5, max. 10)
Examines contemporary issues such as genetic engineering, acid rain and artificial intelligence through integrated perspectives from the physical, life, and mathematical sciences. Uses appropriate methods of analysis and evaluation that draw upon science, the social sciences, and the humanities.

BIS 485 Topics in Cultural Studies (3-5, max. 15)
Explores in depth specific historical, political, or social aspects of cultural practice. Links this analysis to an examination of the processes involved in doing various forms of cultural work.

BIS 486 Studies in Women and Literature (5, max. 10) VLPA
Advanced study concentrating on individual or a group of related women writers with attention to such subjects as women and language, feminist literary criticism, and canon formation.

BIS 487 Topics in American Literature (5, max. 10) VLPA
Advanced study in American literature concentrating on individual writers, literary movements, specific critical approaches to literature, or literary canons and their critics.

BIS 488 Topics in British Literature (5, max. 10) VLPA
Advanced study of significant authors, issues and movements in English literature. Topics include Shakespeare and the idea of tragedy, Virginia Woolf as artist and cultural critic, and canon formation and the Romantic movement.

BIS 490 Senior Seminar (5, max. 10)
Study of special topics in interdisciplinary arts and sciences. Prerequisite: BIS 300.

BIS 491 Topics in Policy Studies (3-5, max. 15)
Explores in depth a specific topic in policy analysis and implementation. Topics include environmental policy, educational policy, cultural and arts practices, labor policy, and health care policy.

BIS 492 Senior Thesis (5-, max. 10)
A significant independent research project planned and carried out by the student under the direction of two or more faculty on a significant scholarly topic selected by the student in consultation with thesis advisor.

BIS 493 Special Topics (3-5, max. 15)
Advanced course offerings designed to respond to faculty and student interests and needs. Topics include French Impressionism, social movements in late nineteenth-century Japan, international business and the changing European economic structure.

BIS 494 Task Force (2-5, max. 15)
BIS 495 Internship (2-6)
Credit/no-credit only.

BIS 496 Community Service Project (3-15, max. 15)
In conjunction with faculty adviser, students develop and implement a community service-learning project. Involves activities such as assistance to disadvantaged populations, community outreach programs, policy analysis, or related work intended to improve the quality of life in the community. Includes academic study designed to integrate practical applications with learning and theory. Credit/no-credit only.

BIS 497 Political Internship in State Government (5, max. 20)
Students serving in approved internship program with state government agencies.

BIS 498 Undergraduate Research (1-5, max. 15)
Individual advanced research on topics conducted under the direction of one or more instructors.

BIS 499 Portfolio Capstone (3)
Focuses on developing a learning and professional portfolio, advancing skills of critical thinking and interdisciplinary synthesis, and honing writing and presentation capacities for appropriate audiences. Stresses collaboration with other graduating students. Prerequisite: BIS 300.

American Studies

BISAMS 364 Public Memory and Dissent in American Culture (5) VLPA/I&S
Examines in detail one (or more) case of social, political, legal, and/or cultural conflict, focusing on how it has been remembered, reconstructed, and reimagined, both textually and institutionally. Stresses diverse interpretive and methodological approaches within American Studies.

BISAMS 365 Exploring American Culture: Popular and Consumer Culture (5) VLPA/I&S
Examines the Americas as a geographical and historical region. Applies a variety of approaches to specific topics and events, with particular attention to the interplay of politics and culture. Stresses interaction of local, regional, and global dynamics such as colonialism, migration, and slavery. Stresses diverse interpretive approaches within American Studies.

BISAMS 366 Exploring American Culture: Americans at the Margins (5) VLPA/I&S
Examines a range of American folklore and folklife, including folk speech, worldview, and folk medicine and religion. Focuses on the relationship between the ideologies of official/institutional cultures and folk cultures. Stresses diverse interpretive approaches within American Studies.

BISAMS 367 Exploring American Culture: Race, Ethnicity, and Immigration (5) VLPA/I&S
Examines in detail one (or more) case of social, political, legal, and/or cultural conflict, focusing on how it has been remembered, reconstructed, and reimagined, both textually and institutionally. Stresses diverse interpretive and methodological approaches within American Studies.

BISAMS 368 Exploring American Culture: Popular and Consumer Culture (5) VLPA/I&S
Examines the Americas as a geographical and historical region. Applies a variety of approaches to specific topics and events, with particular attention to the interplay of politics and culture. Stresses interaction of local, regional, and global dynamics such as colonialism, migration, and slavery. Stresses diverse interpretive and methodological approaches within American Studies.

BISAMS 369 Exploring American Culture: Americans at the Margins (5) VLPA/I&S
Examines a range of American folklore and folklife, including folk speech, worldview, and folk medicine and religion. Focuses on the relationship between the ideologies of official/institutional cultures and folk cultures. Stresses diverse interpretive approaches within American Studies.

BISAMS 370 Exploring American Culture: Race, Ethnicity, and Immigration (5) VLPA/I&S
Examines in detail one (or more) case of social, political, legal, and/or cultural conflict, focusing on how it has been remembered, reconstructed, and reimagined, both textually and institutionally. Stresses diverse interpretive and methodological approaches within American Studies.
discourses and social, economic, and political practices and policies. Stresses diverse interpretive approaches within American Studies.

BISAMS 368 Sex, Love, Romance (5) VLPA/I&S, DIV Examines how ideologies and practices of sex, love, and romance have structured American political relations and everyday life. Focuses on the relationship between public and private life, social and gender roles, race and reproduction, among other topics. Stresses diverse interpretive approaches and methodologies within American Studies.

BISAMS 369 American Culture and Mass Media (5) I&S Goldberg Combines an introduction to analytical methods for understanding mass media with the critical study of American cultural practices and structures. Applies analytical tools to a multimedia production.

Culture, Literature, and the Arts

BISCLA 318 Performance, Identity, Community, and Everyday Life (5) VLPA/I&S Examines performance in everyday life, dance, theater, community-based arts practices, and/or new media from a variety of perspectives. Considers how performances act as sites for the revisioning of identity, community, and cross-cultural exchange.

BISCLA 349 Hollywood Cinema and Genres (5) VLPA Examines Hollywood cinema as an institution of cultural affirmation and contestation within modern society. Explores the foundational methodology of cinema studies and employs a broad range of contemporary approaches to cultural and textual analysis.

BISCLA 360 Literature, Film and Consumer Culture (5) VLPA/I&S Explores innovative approaches to the study of literature and film in the age of consumer culture. Focuses on literary and cinematic communication as an important arena for the constitution of modern subjectivity and personal identity.

BISCLA 372 Comparative Arts in Eighteenth-Century Europe (5) VLPA Examples chosen from the realms of art, literature, and music produced during the Enlightenment demonstrate both the multiplicity and the interrelation of the three arts in Europe beginning with Watteau, Addison, and Couperin and ending with David, Goethe, and Mozart.

BISCLA 380 Arts in Context (5, max. 15) VLPA/I&S Considers literary, visual, performing art forms and traditions set within their specific political, historical, social, religious, or philosophical, and aesthetic contexts. Encourages students to explore original sources and scholarly research, building understanding and awareness of visual, literary, and kinetic analysis and interpretation.

BISCLA 384 Literary and Popular Genres (5, max. 10) VLPA Examines the conventions that define genres and their historical evolution. Focuses on one or two genres taken from the traditional modes of lyric poetry, tragedy and comedy, and epic, or from the popular forms of gothic romance, detective and mystery stories, and journalistic fiction.

Community Psychology

BISCP 343 Community Psychology (5) I&S Examines the historical foundations, theory, methods, and practice that constitute the interdisciplinary field of community psychology. Students build upon an existing empirical knowledge base, including effective modes of community intervention, and examine the relevance of community psychology for addressing social problem.

BISCP 489 Projects in Community Psychology (5) Provides the opportunity to apply concepts from BIS 343 in a relevant organizational setting, to engage in a meaningful community-based intervention or research project, and to critically reflect on the project as it is conceived and carried out. Prerequisite: BISCP 343.

Global Studies

BISGST 303 History and Globalization (5) I&S The phenomenon of globalization has attracted the attention of many academic disciplines which often attribute novelty to trends that have in fact been around for centuries. Provides a historical perspective on current debates about globalization. Approaches may vary with instructor.

BISGST 324 International Political Economy (5) I&S, QSR The study of interrelations between international politics and economics. Addresses the Bretton Woods institutions, differing political conceptions of international economic relations, trade, trade restrictions, trade agreements, global financial flows, migration, and exchange rates. Methods emphasize institutional analysis, historical analysis, accounting frameworks, and formal economic models.

BISGST 362 Contemporary Political Ideas and Ideologies (5) I&S Explores the juncture of political ideology with political experience in the context of such widespread ideas as nationalism, democracy, and socialism, and their diverse manifestations in contemporary political movements and systems.

BISGST 397 Topics in Global Studies (5, max. 15) I&S Examines a topic, theme, problem, or area of the world in order to provide a deeper understanding of an aspect of Global Studies.

BISGST 497 Advanced Topics in Global Studies (5, max. 15) I&S Advanced study of a specific topic, problem, or area of the world in order to provide a deeper understanding of an aspect of Global Studies.

Interdisciplinary Arts

BISIA 207 Introduction to Creative Writing: Words, Stories, Dialogues (5) VLPA Heuvingy Inquires into basic elements of creative writing that occur in multiple genres and media. Studies and practices writing in a workshop atmosphere.

BISIA 240 Visual and Media Arts Techniques (1-5, max. 10) VLPA Develops intermediate art skills and applications, with an emphasis on visual and media arts. Recommended: Either B ARTS 197 or prior experience.

BISIA 250 Photography as Art (5) VLPA Explores photography as an artistic medium. Creates a context for understanding photography as a form of contemporary art, including expressive and interpretive strategies for taking and making pictures.

BISIA 283 Interdisciplinary Art Techniques (1-5, max. 10) VLPA Kochhar-Lindgren, Milutis Develops intermediate skills and applications in one or more studio arts in order to enhance students' abilities as performers, arts creators, or educators.

BISIA 310 Creative Writing: Poetry (5) VLPA Intensive study of the theories and practices of writing poetry.

BISIA 311 Creative Writing: Prose (5) VLPA Intensive study of the modes and means of composing creative, non-fictional prose.

BISIA 319 Interdisciplinary Arts (5) VLPA Edwards, Heuving, Kochhar-Lindgren, Milutis Investigates relationships between the study and making of art. Explores connections among written, visual, and performance arts and engages their intellectual, social, and aesthetic dimensions.
BISIA 340 Visual and Media Arts Workshop (1-5, max. 10) VLPA
Interdisciplinary arts workshop with an emphasis on visual and media arts. Focuses on the development and critique of creative projects in a practice-oriented setting. Recommended: Recommended: either BISIA 240 or prior experience.

BISIA 350 Photography and Digital Art (5) VLPA Hiebert Explores the use of photography and 2D digital imaging as contemporary art forms in a practice-based arts workshop. Emphasizes creative and conceptual engagement.

BISIA 383 Interdisciplinary Arts Workshop (1-5, max. 15) VLPA Heuring, Kochhar-Lindgren, Milutis Interdisciplinary arts workshop with an emphasis on building relationships among multiple art forms. Focuses on the development of creative projects in a practice-oriented setting. Recommended: Recommended: BISIA 283 or prior experience.

BISIA 401 Literary and Arts Journal Editorial Board (2-5, max. 20)
Provides opportunity to learn about publishing a literary journal by publishing the UWB Literary Journal. Students gain skills in communication, assessing and editing literary texts, layout design, technology for creating and disseminating multi-media work, project management, and teamwork.

BISIA 410 Advanced Creative Writing Workshop (1-5, max. 15) VLPA
BISIA 450 Image and Imagination (5) VLPA Hiebert Explores image-based arts in a contemporary context in an advanced arts workshop. Emphasizes the development of creative and conceptual projects in a practice-oriented setting.

BISIA 483 Advanced Interdisciplinary Arts Workshop (1-5, max. 15) VLPA Heuring, Kochhar-Lindgren, Milutis, Watts Advanced interdisciplinary arts workshop with an emphasis on synthesizing multiple art forms. Focuses on the development of creative and conceptual projects in a practice-oriented setting. Recommended: either BISIA 383 prior experience.

BISIA 498 Arts Learning in the Community (5-10, max. 10) Heuring, Kochhar-Lindgren, Milutis, Watts Develops a theoretical and practical understanding of arts-practices in relation to a selected community context. Engages in a specific project at an educational, social service, or arts organization, or in an arts-project that works across communities.

Interdisciplinary Studies Skills
BISSKL 250 Career Exploration (2) Burgett Explores issues, topics, and tasks related to personal, educational, and career choices. Addresses educational and career planning, personal characteristics and individual preferences, life and work values and interests, decision making, goal setting, and job/career search preparations. Credit/no-credit only.

BISSKL 302 Team Building (2) Introduces a theoretical and experiential understanding of team development, consensus decision-making, sharing values, diversity, facilitation, conflict resolution, and dialogue. Theory is based on emerging views of teams and organizations as self-organizing systems.

BISSKL 350 Independent Fieldwork (1-6, max. 18) Independent fieldwork in community agencies, apprenticeships, internships, as approved for College of Arts and Sciences credit. Faculty sponsor and internship supervisor are required. Credit/no-credit only. Offered: AWSPs.

BISSKL 351 Community-Based Learning (2-5, max. 15) Independent study conducted in organizations in our communities, complementing a designated course.

BISSKL 375 Academic Research and Writing Seminar (2) Using a research project from another course students refine writing skills and expand skills in accessing, identifying, and critically evaluating information. Must be concurrently enrolled in another IAS course. Credit/no-credit only.

BISSKL 377 Quantitative Reasoning (2, max. 4) Strengthens quantitative reasoning and develops problem solving and critical thinking skills through studying mathematics that can be used in everyday lives and careers.

BISSKL 400 Policy Journal Editorial Board (2, max. 10) Students nominated by faculty may participate on the editorial board of the Policy Journal. Board members are responsible for managing the content and production of the Policy Journal which is produced at least once per year, with the possibility of additional volumes if sufficient numbers of quality submissions are received. Credit/no-credit only.

BISSKL 402 Peer Facilitation (2-5, max. 10) Provides direct experience in teaching and facilitation. Students gain in-depth background on subject material along with training in teaching techniques and facilitation approaches. Credit/no-credit only.

Law, Economics, and Public Policy
BISLEP 301 Law, Economics, and Public Policy (5) Jacoby Examines the relationships among the fields of law, economics, politics, and public policy, with particular attention to problems of social, economic, and political change. Uses examples from various areas of public policy, including social, environmental, and education policy. Prerequisite: ECON 200 or B CUSP 200.

BISLEP 302 Policy Analysis (5) Carlisle, Nitta Provides an introduction to the approaches and methods used in analysis of laws and policy utilizing case studies, statistics, and demographic evidence. Draws on contribution from microeconomics, statistics, political analysis, and social demography to examine trade-offs make in public policy design and implementation as well as impacts of implemented policies.

BISLEP 397 Topics in Law, Economics, and Public Policy (5, max. 15) I&S Examines a topic, theme, or problem at the intersection of law, economics, and public policy.

BISLEP 497 Advanced Topics in Law, Economics, and Public Policy (5, max. 15) I&S Advanced study of a specific topic, theme, or problem at the intersection of law, economics, and public policy.

Media and Communication Studies
BISMC 234 Media and Communication Techniques (1-5, max. 10) VLPA Krabill, Milutis Develops beginning to intermediate skills and techniques in one or more forms of communication practice and media production.

BISMC 240 Working with Video (5) VLPA Introduction to conceptual foundation and principles of video production. Develops beginning to intermediate skills in video production.

BISMC 260 Working with Audio (5) VLPA Introduction to the conceptual foundation and principles of audio production. Develops beginning to intermediate skills in audio production.

BISMC 333 Media and Communication Studies (5) VLPA/ I&S Behler, Harewood, Krabill Emphasizes the skills of critical media analysis and creative media production. Addresses media representations and the importance of media in structuring contemporary society.
BISMSCS 343 Media Production Workshop (1-5, max. 15) VLPA
Harewood, Milutis Provides hands-on experience in communicative practice and the production of media. Combines production and theory.

BISMSCS 402 Community Media Practice (2-5, max. 20) VLPA Provides an opportunity to undertake practice-based work in community media organizing and media production. Students gain skills initiating and maintaining community-based efforts in the context of media. They also gain experience using relevant media hardware and software, developing programming ideas, and recording, editing, and distributing media content.

BISMSCS 471 Advanced Topics in Media and Communication Studies (5, max. 15) Behler, Krabill Advanced study of a topic in media and communication that includes a practice component. Recommended: BISMSCS 333.

BISMSCS 472 Advanced Media Production Workshop (1-5, max. 15) VLPA Provides focused study and production in a specific area of media arts and practice. Recommended: BISMSCS 343.

BISMSCS 473 Visual Communication (5) VLPA/i&S Thurlow Examines the everyday world of images, image-making, design, and visual culture. Introduces students to different visual methodologies, modes, and sites of contemporary visual production.

Society, Ethics, and Human Behavior

BISSEB 304 Institutions and Social Change (5) I&S Explores the patterns of power that create our social world and how those patterns can be challenged or modified. Examines cultural, institutional, and interpersonal ways that people gain, challenge, and are affected by power and considers how and whether to bring about social change.

BISSEB 331 The Family in U.S. Society (5) I&S Examination of the historical development of the family, and the theoretical underpinnings of family relationships. Discusses current trends and changes in the family and family life.

BISSEB 333 The Individual and Society (5) I&S Socialization is the process by which individuals develop into social beings. Examines various theories of socialization and human development. Explores the role played by social structure and institutions in the integration of the individual into society.

BISSEB 359 Ethics and Society (5) I&S Examination of major ethical alternatives (egoism, utilitarianism, hedonism, virtue ethics, relativism, emotivism) along with competing visions of the good society (libertarian, communitarian, feminist). Analyzes several contemporary problems, such as legal pluralism, affirmative action, euthanasia, capital punishment, corporate responsibility.

Science, Technology, and Society

BISSTS 231 Genes, Genomes and Heredity (5) I&S/NW Servetnick Explores basic concepts of heredity, including DNA structure and function, Mendel's rules of inheritance, and human genetic diseases. Goals include understanding current issues in the field, including genetic screening and testing, DNA fingerprinting and forensic analysis, the genetic basis of cancer, and genetically modified organisms. Recommended: one year of high school biology. Offered: jointly with B BIO 231.

BISSTS 232 Embryos, Genes and Reproductive Technology (5) I&S/NW Servetnick Explores human reproduction, embryonic development, and genetic technology. Explores the increasing use of technology used in reproduction and related issues (e.g. in vitro fertilization, genetic selection of embryos, cloning, stem cells). Recommended: one year of high school biology. Offered: jointly with B BIO 232.

BISSTS 307 Science, Technology, and Society (5) I&S Presents concepts and theories used to investigate the creation, application, and governance of science and technology. Addresses the nature of scientific and technological knowledge, social construction of science and technology, democracy and science, and public understanding.

BISSTS 397 Topics in Science, Technology, and Society (5, max. 15) I&S Examines a topic, theme, or problem at the intersection of science, technology, and society.

BISSTS 497 Advanced Topics in Science, Technology, and Society (5, max. 15) I&S Advanced study of a specific topic, or problem at the intersection of science, technology, and society.

Policy Studies - Bothell

BPOLST 492 Topics in Policy Research (3-5, max. 10) Explores topics in policy research to prepare students planning to enter a graduate level policy program. Topics may include: quantitative research methods, qualitative research methods, or research writing for the social sciences.

BPOLST 500 Policy Process (5) Focuses on political and institutional aspects of public policy processes. Examines rationales for public policy and the processes in which they are articulated and negotiated; formulation of policies; selection of policy instruments; and policy implementation. Offered: A.

BPOLST 501 Public Finance and Budgeting (5) Jacoby Analysis of government expenditures and revenues. Uses economic theory to examine key public policies in areas such as health, education, and labor. Emphasizes policy rationales and impacts regarding efficiency and equity. Develops accounting concepts necessary for budgeting analysis. Prerequisite: Microeconomics. Offered: Sp.

BPOLST 502 Statistics for Policy Studies (5-) Surveys important aspects of social science research for academic and practical investigation. Focuses on gaining an understanding of research and statistical analyses and their relationship to policy concerns. Prerequisite: minimum grade of 2.7 in BPOLST 500. Offered: W.

BPOLST 503 Policy Analysis (5-) Focuses on methods and approaches used in policy analysis and program evaluation. Examines and applies interdisciplinary approaches and methods for evaluating policy impacts and outcomes, including cost-benefit analysis, randomized field experiments, quasi-experimental assessment, and participatory assessment. Examines

BPOLST 504 Management and Organizations (5) Addresses how organizational cultures, processes, and resources create and limit policy options in local, state, and national context. Examines how an organization's strategies, perspectives, and patterns of resource management shape organizational responses to a variety of policy issues and problems. Prerequisite: minimum grade of 2.7 in BPOLST 500, BPOLST 502, and BPOLST 503.

BPOLST 505 Leadership and Organizations (5) Decker, Kochis Explores the human interactional dimension of organizational culture, behavior, and outcomes. Special attention is devoted to how individual and group dynamics frame the options open to leaders, managers, and employees in public, private, and non-profit organizations, and how leaders and managers shape the culture and behavior of organizations. Offered: W.

BPOLST 506 Capstone Research (5-) Depending on work experience,
participate in an internship or field research in a private, public, or non-profit organization to investigate a policy problem. Conduct primary or secondary research, collecting data, and selecting theoretical perspectives. Represents the first stage of the Capstone project. Offered: A.

BPOLST 508 Capstone Project (3, max. 15) Based on data collected form their primary or secondary research internship/field research, write a capstone paper which frames project conceptual issues, its research findings, and produces a critical analysis of a policy issue. Represents the second stage of the Capstone project.

BPOLST 520 Policy Internship (2-5, max. 10) Student arranged internship with a local organization or agency that incorporates a "field-based" component into their learning. Includes a policy project that benefits the organization and has academic merit. Prerequisite: BPOLST 500; BPOLST 502. Credit/no-credit only. Offered: A/WSp.

BPOLST 571 Policy Ethics (5) Kochis Examines the complex relationships between policy and ethics. These relationships are grounded in moral and political theories about the behavior of state and non-state actors. Offered: A/WSp.

BPOLST 576 Education Policy and Politics (5) Covers the historical development of U.S. K-12 education policy, with particular focus on contemporary education policy issues and debates, such as standards, tests, accountability, and school choice. Addresses the process and politics through which education policy is made at the federal, state, and local levels.

BPOLST 581 Issues in Human Rights Policy (5, max. 10) Explores the theories and practices of implementing the international human rights regime as government policy. Students engage in issues of normativity in policy formation and the pathways by which certain norms become domestic and global standards.

BPOLST 582 Issues in Technology Policy (5, max. 10) Explores how science and technology contribute to economic growth and human development, and how political processes shape and manage that impact. Examines historical and contemporary issues.

BPOLST 583 Issues in Environmental Policy (5, max. 10) Jacoby Examines issues in the changing arena of labor and human resource policy.

BPOLST 584 Issues in Labor and Human Resources (5, max. 10) Jacoby Examines issues in the changing arena of labor and human resource policy.

BPOLST 585 Issues in Health Policy (5, max. 10) Examines current issues in the changing arena of health policy including managed care, public health and safety, and the ethical dimensions of medical research and practice.

BPOLST 586 Issues in Education Policy (5, max. 10) Examines issues in education policy in local and global contexts.

BPOLST 591 Research Colloquium (1, max. 5) Provides an opportunity for graduate students and faculty members to exchange research ideas, present findings, discuss analytical methods and tools, and evaluate the implications of the presented research. Credit/no-credit only. Offered: jointly with BCULST 591; A/WSp.

BPOLST 592 Topics in Policy Research (3-5, max. 10) Develops advanced technical skills in policy research methods. Topics may include various qualitative and quantitative methods of research.

BPOLST 593 Topics in Policy Studies (3-5, max. 10) Examines the changing arena of policy. Topics are relevant to current issues and may include the following: policy and gender; transportation policy in Puget Sound; policies of aging; and environmental policy.

BPOLST 594 Research Design (5) Dobask Provides grounding in research designs, such as experimental, longitudinal, cross-sectional, case-study, and action research design. Helps professionals design and evaluate research proposals and be astute consumers of published research. Develops research proposals that can be submitted for institutional review at UW. Offered: Sp.

BPOLST 595 Policy Studies Skills Workshop (1-3, max. 9) Provides the opportunity to develop applied skills commonly required of managers and analysts in the public and non-profit sectors. Workshops emphasize hands-on learning and actual practice.

BPOLST 598 Directed Research (1-5, max. 15) Individual advanced research on policy topics conducted under the direction of one or more instructors.

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Nursing and Health Studies

Health - Bothell

B HLTH 397 Current Health Topics (3-5, max. 15) Survey of current issues in human health with analysis of selected topics. The personal, social, political, and economic aspects of health are explored through professional health writing and interdisciplinary literature.

B HLTH 444 Issues in American Indian Health (5) I&S Provides an overview of biobehavioral and psychosocial health issues in American Indian communities. Uses media created by Native people and expresses perspectives best understood in Native voices and images to explore how social determinants of health intersect and shape health conditions, health beliefs, healing practices, and delivery of care.

B HLTH 445 Health in a Developing Nation: Study Abroad (5) I&S Provides an overview of the health and health care challenges in a developing and low-income country. Addresses socio-cultural, environmental, economic, political, and ecological factors that influence health, illness, disability, and death as well as responses to health issues both within and outside the health sector. Includes study abroad.

B HLTH 450 Exploring the Humanities in Healthcare (5) VLPA Explores how one or more of the arts/humanities are used in healthcare settings to help patients, their families and friends, and healthcare professionals: promote wellness, healing and recovery; and process illness, trauma, or loss experiences.

B HLTH 451 Family Caregiving Across the Life Span (5) I&S Focuses on family caregiving across the lifespan. Examines issues, problems, and challenges family caregivers face while taking on this role across communities and illnesses. Supports health and social service providers in defining their roles within the context of family caregiving.

B HLTH 455 Women, Culture, and Healing (5) VLPA/I&S Interdisciplinary course explores the inter-connectedness of identity, culture, healing. Addresses how women make meaning in their lives; how they are both shaped by and influence history, culture, and the world. Integrates humanities, social and health sciences to study cultural influences on women’s health and healing.

B HLTH 460 Assessment of Older Adults (5) Sikma Focuses on understanding the experience of aging and developing competence in
assessing older adults and their needs. Studies and evaluates selected
evidence-based functional, clinical, and psycho-social assessment
instruments and approaches relevant to desired professional practice
focus.

B HLTH 462 Global and Local Health Inequalities and Interventions
(5) I&S Abrams Examines the conditions (political, economic, cultural,
historical) that create and sustain disparities in health globally and
locally. Critically examines health issues from multiple perspectives,
exploring theories and movements of people creating social justice in
health within frameworks that are both globally and locally situated.

B HLTH 464 Environments and Health (5) I&S/NW Facilitates
understanding of complex relationships between human health and living
and working environments. Students identify ways that professionals,
private citizens, and members of community groups can take actions to
preserve the environment and protect human health.

B HLTH 465 Adolescent Health (5) I&S Resnick Explores growth and
development, challenges of adolescence, and how society, through its
communities, health agencies and schools and media, identifies and
responds to adolescent health care needs. Uses literature and media
produced for adolescent and professional, reflective writing, and interviews
to examine issues related to promoting adolescent health.

B HLTH 480 Genetics and Public Health (5) I&S/NW Wade Explores
the importance of human genome research findings for patient care and
emphasizes developing skills for evaluating and communicating about
 genetic risks.

B HLTH 497 Selected Topics in Health (3-5, max. 15) Guided survey
and discussion of current literature in health related to personal, social,
economic, and political topics. May have field component.

B HLTH 580 Genetics and Public Health (5) Wade Explores the
importance of human genome research findings for patient care and
emphasizes developing skills for evaluating and communicating about
 genetic risks.

B HLTH 597 Special Topics in Health (3-5, max. 10)

Health Studies

BHS 201 Introduction to Public Health (5) I&S/NW C. Wade Provides
an introduction to the principle of public health with exploration of the
frameworks, tools, and evidence base that guides disease prevention and
health promotion efforts. Consideration given to ethical and public policy
issues important to ensuring the fair distribution of resources. Offered: AW.

BHS 215 Statistics for Health Sciences (5) QSR Provides an overview
of basic concepts of statistics used in health sciences with opportunities to
learn through experience with health-related data. Offered: jointly with B
MATH 215.

BHS 300 Principles of Health Research (5) NW de Castro, Cooke,
Kenworthy, Stone, Wade. Develops competence in accessing,
understanding, and evaluating scientific knowledge about population
health. To improve students' ability to effectively advocate for public
health improvements, emphasis placed on composition approaches that
effectively synthesize and translate evidence. Offered: AW.

BHS 302 Global Communities, Culture, and Health Equity (5) I&S
Addresses several main concepts in public health with an exploration of
the links between: 1) community, health, and culture; 2) health equity
and social justice; and 3) emerging field of global health.

BHS 303 Introduction to Epidemiology (5) Introduces principles,
methods, and issues in public health practice-based epidemiology. Covers
research designs and methods to describe disease occurrence and risk
factor associations, and the role of epidemiologic data in health policy.

BHS 310 Pathways to Health Studies (2) Provides a forum for students
to plan their educational pathway within the Health Studies major.
Provides an overview of career options and professional development
opportunities, supplemented with guest lectures by professionals
working in the field. Offered: W.

BHS 320 Human Health and the Environment (5) Examines the
relationship between environmental factors and the health and well-
being of individuals, families, communities, and populations.
Contemporary understanding of how the natural and built environments
influence risk for disease and illness illustrated through case examples.
Explores multi-disciplinary approaches to address environmental
problems and improve living and work spaces.

BHS 400 Study Abroad: Health Studies (1-5, max. 15) I&S/NW Upper-
division health related courses for which there are no direct University of
Washington Bothell equivalents, taken through a University of
Washington study abroad program.

BHS 421 Food and Culture (5) VLPA/I&S Through writing, video,
storytelling, and creative exploration, examines the forces that shape our
choices about food, and how food choices drive our economy, our health,
our self-image, and our social connections.

BHS 422 Walking in Beauty: Native Art and Healing (5) VLPA/I&S
Examines the impact of social, economic, historic, and environmental
disparities on American Indian/Alaska Native health, along with the
healing effects of Native art, culture, pride, and community.

BHS 430 Health Policies and Politics in a Global Context (5) I&S
Examines current and emerging global health challenges, their
transnational determinants, and selected policies that address those
challenges at varying national and global political contexts.

BHS 496 Field Work in Health (2-10, max. 10) Independent field work
or internship related to student's focus on health. Facilitates career
development and connecting classroom and practice. Negotiated and
supervised with individual faculty.

BHS 497 Selected Topics in Health (3-5, max. 15)

BHS 499 Health Studies Senior Portfolio (3) Focuses on developing a
learning and professional portfolio, advancing critical thinking skills,
synthesis of knowledge relevant to the health field, and honing writing
and presentation capacities for appropriate audiences. Involves
collaboration with other graduating students. Prerequisite: BHS 310.

Nursing

B NURS 350 Critical Thinking in Nursing (4) Focuses on critical
thinking and effective writing in nursing. Students explore nursing and
health care issues, evaluate varied perspectives, and develop a reasoned
analysis of current topics.

B NURS 403 Evidence Based Practice and Nursing Inquiry (5) NW,
QSR Develops beginning competence in accessing and evaluating
scientific knowledge as a base for promoting evidence based practice in
nursing care. Examines components of the process of nursing inquiry as a
tool to advance nursing knowledge and a tool to promote evidence based
practice.

B NURS 407 Cultural and Social Issues in Healthcare (5) I&S, DIV
Analyzes the impact of cultural, social and global factors on the health of
diverse populations. Critically examines how discrimination, oppression, and privilege relate to health, health disparities, illness, and healing. Students apply self-awareness, knowledge, and skills in planning for and providing non-discriminatory and culturally competent healthcare.

B NURS 409 Partnerships in Community Health (5) I&S Analyzes, applies, and evaluates nursing and other healthcare activities of local, national, and global communities, including health promotion, disease prevention, public health, and social justice efforts. Explores influencing socio-cultural, epidemiological, economic, and political issues. Partners with community agencies to apply community health nursing principles to promote and maintain population self care.

B NURS 410 Legal and Ethical Issues in Clinical Practice (5) Introduction to the major ethical theories and principles through the use of models for the analysis of representative cases. Analyzes the recurring ethical problems in clinical practice, such as withholding and withdrawing life support, promoting client autonomy, and interprofessional conflicts.

B NURS 430 Relational Leadership in Nursing (5) Introduces knowledge and practices that support the implementation of relational leadership in health care contexts. Content emphasizes strategies that: 1) enhance personal vision and voice; 2) create commitment; 3) include diverse perspectives; 4) solve problems; 5) resolve conflicts; and 6) accomplish goals.

B NURS 495 Senior Portfolio (1-5) I&S Creation of a portfolio demonstrating the progress made toward individual and program goals. Portfolio contains examples of papers, videotapes, evaluations from faculty, peers and self, and a reflective summary on the learning that has occurred. Credit/no credit only.

B NURS 497 Selected Topics in Nursing (1-12, max. 12) Investigates a selected topic in nursing and health care not already covered in the current curriculum.

B NURS 498 Special Project in Nursing (1-12, max. 12) Further development, critical examination, and synthesis of nursing care in a specialized setting. Increasing depth of clinical practice, including care to groups and communities as clients, applying leadership skills, assessing problems affecting quality health care delivery, and applying research findings.

B NURS 499 Undergraduate Research (1-5, max. 12) Provides an opportunity to investigate a selected problem and to do an analysis and interpretation of the findings resulting from the investigation under supervision of a faculty member.

B NURS 501 Contemporary Issues in Advanced Nursing Practice (3) Explores and analyzes current issues, trends, and emerging theories in advanced nursing and healthcare as they relate to variety of practice settings and health concerns. Offered: A.

B NURS 502 Dynamics of Community Health Practice (3/5)

B NURS 503 Advanced Fieldwork in Community Health Nursing (1-6, max. 12) Projects involve scholarly inquiry with in-depth focused analysis, culminating in a written product/report for dissemination. Provides substantive fieldwork experience in student's setting of interest. Assists students in the delineation of advanced nursing roles and application of theoretical concepts into the real-world context. Prerequisite: B NURS 501, B NURS 527, B NURS 504, B NURS 526, B NURS 520, B NURS 580; B NURS 502 and B NURS 521, which may be taken concurrently.

B NURS 504 Disparity and Social Justice in Healthcare (3) Analyzes how social, cultural, economic, and political factors related to the nature, distribution, and meaning of health and illness. Examines how social determinants contribute to health inequity and create health disparities. Emphasizes advocacy approaches to improve individual and population health outcomes and quality of healthcare system. Offered: A.

B NURS 507 Advanced Nursing Roles (2) Examines the wide variety of roles available to the graduate-level nurse, including various roles in clinical practice and education.

B NURS 508 Ethics, Aesthetics (3) Examines, critiques, and applies theories, models, and methods associated with the fields of ethics and aesthetics in advanced nursing roles.

B NURS 510 Technology and Pedagogy (3) Resnick Develops a teaching philosophy consonant with technology-enhanced learning environments. Evaluates and selects technologies for teaching and learning activities. Develops and applies learning objectives derived from Bloom's taxonomy. Creates an online or hybrid learning activity from passive to active. Includes practice and evaluation of strategies.

B NURS 511 Curriculum Development in Nursing Education (3) Includes the theoretical rationale for curriculum development and study of curricular problems in nursing in relation to the elements of the curriculum as described in a curricular design. Prerequisite: permission of program.

B NURS 512 Evaluation of Clinical Performance in Nursing (3) For graduate students preparing for faculty or staff development positions in nursing. Theory and principles of evaluation. Instruments to appraise clinical nursing performance developed as part of course requirements. Prerequisite: graduate standing or permission of instructor.

B NURS 513 Theories and Methods of Teaching and Learning (3) Addresses theories and methods of teaching and learning, tools and resources, role development, and current issues faced by those who teach in higher education and staff development. Includes practice and evaluation of strategies.

B NURS 520 Scholarly Inquiry for Nursing Practice I (3) Analyzes conceptual, theoretical, and empirical knowledge as a basis for evidence-based practice. Examines methodological approaches to scholarly inquiry and research applied to nursing practice. Evaluates the role of advanced practice nurses in research. Prerequisite: a course in statistics.

B NURS 521 Scholarly Inquiry for Nursing Practice II (3) Builds on scholarly inquiry and research knowledge gained in B NURS 520. Specific focus include measurement, study design, and data collection issues as well as enhancing data analysis and interpretation abilities. Emphasizes application of scholarly inquiry methods in nursing practice. Prerequisite: B NURS 520.

B NURS 525 Healthcare Systems Leadership for Advanced Roles (3) Personal and professional development for leadership in advanced nursing roles in healthcare systems and nursing education. Emphasis is on application of leadership and systems theory, critical thinking, and interprofessional collaboration to leadership roles that will improve population health, quality, and safety of care in organizations and systems.

B NURS 526 Program Planning and Program Evaluation in Health Service Delivery (3) Analyzes selected theories and methods of program planning and program evaluation in the design, organization, and development of health services for defined populations in the community. Reviews selected theoretical and research models for their use in the conceptualization and development of health programs and services for defined populations.

B NURS 527 Managing Effective Access and Utilization Within Care
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**Systems (3/4)** In-depth inquiry into health care access and resource utilization patterns among diverse populations, with emphasis on nursing management strategies for establishing effective population-system fit.

**B NURS 550 Seminar on Professional Issues in Nursing Education (3)** Seminar on role and related professional issues in nursing education. Prerequisite: either NSG 545, B NURS 513, or T NURS 513; either NSG 546, B NURS 511, or T NURS 511. Offered: jointly with NSG 550/T NURS 550.

**B NURS 578 Health Care and Community (3)** Analysis of healthcare in the community from nursing and behavioral science perspectives. Socio-cultural influences on health beliefs and practices, natural-care units, and community life patterns analyzed. Community as both context and target of change explored in relation to nursing approaches in health promotion and maintenance.

**B NURS 580 Populations at Risk in the Community (3)** Focuses on health needs and risks of selected populations in the community and theoretical and analytical perspectives on assessment and intervention strategies in community health nursing practice with groups and populations whose health is at risk.

**B NURS 597 Selected Topics in Nursing (1-5, max. 15)** Course content and credits vary depending upon topic.

**B NURS 598 Special Projects (1-6, max. 12)** Scholarly inquiry with in-depth, focused analysis, culminating in a written product/report for dissemination. Credit/no-credit only.

**B NURS 600 Independent Graduate Project/Research (1-5)** Provides graduate nursing students an opportunity to investigate and report on selected nursing problems under the supervision of a graduate faculty member. Credit/no-credit only.

**Pre-major**

**Arts**

**B ARTS 121 Introduction to Drawing (5) VLPA** Builds basic drawing skills, develops understanding of primary concepts which relate to drawing and develops an understanding of the grammar or syntax of two-dimensional language. Students move beyond their current knowledge and abilities and link new skills, concepts, and understandings to creative expressing. Offered: AWSp.

**B ARTS 131 Introduction to Arts Practice (5) VLPA** Includes active exploration of processes through which artists discover and translate ideas, feelings, and concerns into various forms of objects. Uses a wide variety of methods and approaches, from traditional to technological, to promote artistic expression. Promotes discussions and critiques to lead to a better understanding of the creative process. Offered: AWSp.

**B ARTS 135 Introduction to Painting (5) VLPA**

**B ARTS 141 Introduction to Photography (2, max. 6) VLPA** An introduction to photography as an art form. Focuses on camera operation and capturing images with full creative control. Encourages students to explore the visual language of photography; learn about contemporary and past photographers; communicate in the visual medium; and look at photographic works with a critical eye. Offered: AWSp.

**B ARTS 151 Introduction to Acting (2, max. 6) VLPA** An interactive approach towards the investigation and development of basic acting skills through improvisation, monologues, scene-work, movement exercises, in-class writing exercises, and experimental ensemble projects. Offered: AWSp.

**B ARTS 161 Introduction to Dance (2, max. 6) VLPA** Provides the opportunity for students to understand dance as a physical practice, creative art, and academic discipline as well as learn about the structural elements of dance, choreographic tools, and the art form’s history. Offered: AWSp.

**B ARTS 191 Art and Public Spaces (5) VLPA** Examines works from across the arts: painting, writing, film, architecture, theater, new media. Explores their relationship to public spaces such as museums, site-specific structures, galleries, and exhibitions, as well as the history of their public reception. Includes site visits. Offered: AWSp.

**B ARTS 197 Studio Arts: Music, Media Arts, and InterArts Performance (2, max. 6) VLPA** Develops skills in a variety of studio arts in order to enhance student ability as a performer, arts creator, educator, or in applied areas of creativity. Offered: AWSp.

**Chinese**

**B CHIN 101 First-Year Chinese (5)** Introduction to the standard language. Emphasis on learning correct pronunciation and basic structure. Drill in oral use of the language. Open only to students who do not have any previous training in Chinese. Offered: A.

**B CHIN 102 First-Year Chinese (5)** Introduction to the standard language. Emphasis on learning correct pronunciation and basic structure. Drill in oral use of the language. Open only to students who do not have any previous training in Chinese. Prerequisite: minimum grade of 2.0 in B CHIN 101. Offered: W.

**B CHIN 103 First-Year Chinese (5)** Introduction to the standard language. Emphasis on learning correct pronunciation and basic structure. Drill in oral use of the language. Open only to students who do not have any previous training in Chinese. Prerequisite: minimum grade of 2.0 in B CHIN 102. Offered: Sp.

**B CHIN 296 Study Abroad: Chinese (1-5, max. 15) VLPA** Intermediate-level Chinese language courses for which there are no direct University of Washington Bothell equivalents, taken through a University of Washington study abroad program. Further study at 200-level subject to placement test scores.

**Center for University Studies and Programs Bothell Core**

**B CORE 104 Discovery Core I: Visual, Literary, and Performing Arts (5) VLPA** Examines an important social issue such as ecology, art, political change, the power of media, educational reform, or the role of science in contemporary culture through interdisciplinary investigation, and the lens of the visual, literary, and performing arts.

**B CORE 107 Discovery Core I: Individuals and Society (5) I&S** Through collaborative and interdisciplinary learning, students develop a knowledge base, skills, habits of inquiry, and imaginative vision. Focuses on individuals, society.

**B CORE 110 Discovery Core I: Natural World (5) NW** Examines an important social issue such as ecology, the role of technology in society, bioethics, or global and local health concerns through interdisciplinary investigation, and the disciplined scientific study of the natural world.

**B CORE 115 Discovery Core II: Individuals and Society (5) I&S**
Addresses an important social issue through an interdisciplinary perspective, continues to build creative and critical skills, and focuses on the relationship between the individual and society.

B CUSP 116 Discovery Core II: Natural World (5) NW, QSR Addresses an important social issue through an interdisciplinary perspective; builds creative and critical skills of writing, analysis, and quantitative reasoning; and explores, through scientific methods, one aspect of the natural world.

B CUSP 117 Discovery Core II: Visual, Literary, and Performing Arts (5, max. 10) VLPA Examines an important social issue such as ecology, art, political change, the power of media, educational reform, or the role of science in contemporary culture through interdisciplinary investigation and the lens of the visual, literary, and performing arts.

B CUSP 118 Discovery Core III: Individuals and Society Portfolio and Experiential Learning (5) I&S Evaluates progress at the conclusion of the first year through the construction of a portfolio and offers an experiential learning opportunity, either on- or off-campus. Prerequisite: either B CUSP 115, B CUSP 116, or B CUSP 117; may not be repeated.

B CUSP 119 Discovery Core III: Natural World Portfolio and Experiential Learning (5) NW Evaluates progress at the conclusion of the first year through the construction of a portfolio and offers an experiential learning opportunity, either on- or off-campus. Prerequisite: either B CUSP 115, B CUSP 116, or B CUSP 117; may not be repeated.

B CUSP 120 Discovery Core III: Visual, Literary, and Performing Arts Portfolio and Experiential Learning (5) VLPA Evaluates progress at the conclusion of the first year through the construction of a portfolio and offers an experiential learning opportunity, either on- or off-campus. Prerequisite: either B CUSP 115, B CUSP 116, or B CUSP 117; may not be repeated.

Center for University Studies and Programs General Education Courses

B CUSP 100 General Learning Strategies (2, max. 6) Provides students with active learning strategies and exploration of university curricular and co-curricular resources and services to help them transition into a university setting and become effective learners. Includes interactive work on building collaborative skills, and well as reflection on personal and academic goals. Offered: AWSp.

B CUSP 103 Intercultural Literacy for Multilingual Students (3) Y. MIN Develops the intercultural abilities of students whose native language is not English. Students learn close reading skills and practical guidelines and strategies that can help them develop writing abilities for various genres of assignments.

B CUSP 122 Introduction to Elementary Functions (5) Covers college algebra with an emphasis on polynomial, rational, logarithmic, exponential, and trigonometric functions. Prerequisite: either a minimum grade of 2.5 in B CUSP 121 or a score of 147-150 on the MPT-GSA assessment test. Offered: AWSp.

B CUSP 123 Functions, Models, and Quantitative Reasoning (5) NW, QSR Explores the concept of a mathematical function and its applications. Explores real world examples and problems to enable students to create mathematical models that help them understand the world in which they live. Each idea will be represented symbolically, numerically, graphically, and verbally. Prerequisite: minimum grade of 2.5 in B CUSP 122, a score of 145-153 on the MPT-AS assessment test, or a score of 151 or higher on the MPT-GS assessment test. Offered: AWSp.

B CUSP 124 Calculus I: Origins and Early Developments (5) NW, QSR Develops modern calculus by investigating the questions, problems, and ideas that motivated its discovery and practice. Studies the real number system and functions defined on it, focusing on limits, area and tangent calculations, properties and applications of the derivative, and the notion of continuity. Emphasizes problem-solving and mathematical thinking. Prerequisite: either a minimum grade of 2.5 in B CUSP 123, sufficient score on approved mathematics assessment test, or a minimum score of 2 on either the AB or BC Calculus test. Offered: AWSp.

B CUSP 125 Calculus II: Foundations and the Emergence of Modern Analysis (5) NW, QSR Focuses on the historical emergence of modern calculus, the Fundamental Theorem, area, volume, and area length calculations, properties and applications of the integral, infinite series, Taylor and Fourier expansions, and the Weierstrass definition of limit. Emphasizes problem-solving and mathematical thinking. Prerequisite: minimum grade of 2.0 in B CUSP 124, score of 3 on AP MAB or AP MBC exams. Offered: AWSp.

B CUSP 126 Calculus with Analytic Geometry III (5) NW Third quarter in calculus sequence. Introduction to Taylor polynomials and Taylor series, vector geometry in three dimensions, introduction to multivariable differential calculus, double integrals in Cartesian and polar coordinates. Prerequisite: either 2.0 in MATH 125, 2.0 in MATH 145, 2.0 in MATH 146, 2.0 in B CUSP 125, score of 5 on AB advanced placement test, or score of 4 on BC advanced placement test. Offered: AWSp.

B CUSP 131 Special Topics in First-Year Learning (1-5, max. 15) Various topics designed to respond to curricular interests and needs for first-year students. Offered: AWSp.

B CUSP 133 First-Year Interest Group (1-5, max. 15) Provides a range of educational experiences that are able to move both within and beyond the traditional classroom. Experiences include options such as participation in undergraduate research, community engagement, and on-campus groups organized around themes of common interest.

B CUSP 134 Interdisciplinary Writing (5) C Offers an interdisciplinary approach to composition, including generating a compelling topic; the articulation of a thesis; the development of supporting evidence; the ability to draw conclusions from the evidence, clear organization of the essay, correct mechanics; awareness of audience, and knowledge of resources for research. Prerequisite: may not be taken for credit if previously earned a minimum grade of 2.0 B CUSP 101, B CUSP 114, or ENGL 131. Offered: AWSp.

B CUSP 135 Research Writing (5) C Strengths performance of college-level argumentative writing and scholarly research, critical reading and thinking, and the critique and the creation of print and new media texts. Prerequisite: either B CUSP 101, B CUSP 114, or B CUSP 134. Offered: AWSp.

B CUSP 140 Scientific Journeys (5, max. 15) NW, QSR Offers introductory practice in laboratory and quantitative techniques, a history of one or more of the sciences, and reflection on the relationship between science and its function in the larger society. Topics vary. Offered: AWSp.

B CUSP 141 Natural History and Environmental Science (5) NW W. GOLD, M. GROOM, A. LAMBERT, D. STOKES Introduces the study of the natural world through the approaches and tools of both traditional natural historians and modern scientific inquiry. Emphasizes the application of these approaches to studying nearby natural areas and using education principles to communication and interpret nature.

B CUSP 153 Introduction to Geology (5) NW Survey of the physical systems that give the earth its form. Emphasizes the dynamic nature of interior and surface processes on the earth and stressing the value of geological forms in understanding of the past and predicting future events.
B CUSP 154 Introduction to Oceanography (5) NW Case studies of research on the oceans, deep-sea exploration, climate change, and human impacts on marine life. Considers societal factors affecting progress in marine science, changing popular attitudes toward the oceans, and key current policy implications of marine science.

B CUSP 161 Digital Thinking (5) QSR Introduces the fundamental concepts behind computing and computational thinking including logical reasoning; problem solving, data representation; abstraction; complexity management; computers and network operations; effective web searches; ethics; and legal and social aspects of information technology through the creation of popular digital artifacts such as web pages, animations, and video games. Offered: Asp.

B CUSP 170 Introduction to Psychology (5) I&S Surveys major areas of psychological science. Core topics include human social behavior, personality, psychological disorders and treatment, learning, memory, human development, biological influences, and research methods. Related topics may include sensation, perception, states of consciousness, thinking, intelligence, language, motivation, emotion, stress and health, cross-cultural psychology, and applied psychology. Offered: AWSp.

B CUSP 171 World History I (5) I&S Situates human history within broadest possible context - from beginning of the universe, through early earth history and the origin and evolution of earth’s biomass and the human species to the development of the great classical societies of China, India, Persia, and the Mediterranean. Offered: A.

B CUSP 172 World History II (5) I&S Explores world history from the time of the ancient classical empires to the global Enlightenment periods of the Eighteenth century. Investigate the interaction of different peoples with their social and natural environments. Offered: W.

B CUSP 173 World History III (5) I&S Explores world history from the Enlightenment periods of the Eighteenth century to the present. Investigates the interaction of different peoples with their social and natural environments. Offered: Sp.

B CUSP 174 American Lives (5) VLPA/I&S Studies the biographies of Americans who made significant contributions during a particular era in American history. These biographies provide a platform for examining social, political and economic developments, as well as how those developments shaped American attitudes, identities, and institutions.

B CUSP 175 Introduction to American Government (5) I&S Examines the major institutions and processes of American government, including civil liberties and rights, federalism, Congress, the presidency, the judiciary, executive branch, political parties and elections, interest groups, and civic engagement. Offered: AWSp.

B CUSP 176 Introduction to Global Economy (5) I&S, QSR Provides intellectual frameworks for common concerns about globalization, competition, trade, transnational corporations, migration, and other contemporary questions. Emphasizes mastery of relevant data and the ability to connect data to analysis and argument. Offered: AWSp.

B CUSP 177 Personal Finance and Consumer Psychology (5) I&S, QSR Introductory examination of personal consumption decisions and financial management tools. Addresses decision-making models, societal norms, and institutions that mediate the working of global and local capital.

B CUSP 178 Introduction to Communication (5) I&S Introduces topics in the study of human communication. Focuses on key goals such as identities, relationships, and communities; modes of interaction such as linguistic, kinesthetic, visual, and mediated; and settings such as one-to-one, small group, organizations, virtual, and mass media. Offered: Asp.

B CUSP 186 Comic Books and Graphic Novels (5) VLPA Analyzes comic books and graphic novels as cultural artifacts within a long tradition of visual storytelling and social critique. Traces the history of its development, focusing on social influences, and emerging social trends that shaped the powerful creative industry it has become today. Offered: Sp.

B CUSP 187 Introduction to Literary Analysis (5) VLPA Goldberg, Goldstein, Kochhar-Lindgren, Watts Examines how literary texts create meaning and emotion. Identifies literary elements and explains their use within formal structures in order to appreciate the pleasures and complexities of literary expression, and their usefulness in other arenas. Instructors may focus on specific genres or topics. Offered: W.

B CUSP 188 Topics in Asian Cultures (5, max. 10) VLPA/I&S Goldberg, Goldstein, Kochhar-Lindgren, Watts Introduces the traditional arts, cultures, and history of countries of Asia. Emphasizes the interaction between culture and geography, politics, economies, and social structures that shape, and are shaped by cultural processes and products. Specific countries vary with the instructor and quarter offered. Offered: WSp.

B CUSP 189 Myth, Ritual, and Culture (5) VLPA/I&S Introduces the concepts of ritual, myth, symbols, and the construction of meaning in fields such as psychology, anthropology, performance studies, theater, and religions studies, focusing on the formation of rituals and their functions in different social contexts. Offered: WSp.

B CUSP 190 Contemporary Literature (5) VLPA Critically engages with contemporary fiction, poetry, drama, cross-genre writing, or new media texts to investigate questions such as methods of interpretation, cultural identity, historiography, gender formations, or political analysis. Offered: Asp.

B CUSP 192 Cross-Cultural Philosophies and Religions (5) I&S, DIV A cross cultural examination of philosophical and religious perspectives on basic questions of human life such as meaning, reality, knowledge, and action, with the aim of developing a sense of the rich complexity of varying cultural and interpretive traditions. Offered: Sp.

B CUSP 193 Introduction to Philosophy (5) I&S Major philosophical questions relating to such matters as the existence of God, the foundations of knowledge, the nature of reality, and the nature of morality. Approach may be either historical or topical. Offered: A.

B CUSP 194 Introduction to Film (5) VLPA Provides an introduction to cinema as an artistic medium, as a source of entertainment, as a platform for cultural critique, and as a cluster of social institutions with significant political and economic power. Offered: A.

B CUSP 199 Field-Based Learning (3, max. 9) Designed for pre-majors interested in gaining hands-on work experience to access potential educational and career paths. Credit/no-credit only.


B CUSP 202 Introduction to Law (5) I&S Introduction to the structure of the legal system. Covers how the United States legal system reflects and forms social values; resolves disputes; deals with criminal
procedures; addresses torts and contracts; and examines the functioning of the Constitution. Offered: AWSp.

B CUSP 203 Undergraduate Peer Instructor Practicum (1-3, max. 12) Provides instruction in group leadership and promotion of values and methods of learning within a university setting. For Peer Instructors. Credit/no-credit only. Offered: Sp.

B CUSP 205 Invention, Innovation, and Entrepreneurs (2-5) I&S Offers an exploratory workshop on generating and refining new ideas, both individually and collaboratively, in areas such as business, the arts, and community projects. Offered: A.

B CUSP 206 Learning to Lead: Collaboration in Diverse Contexts (2) DIV Explores methods of collaboration, mentoring, and shared leadership practices for social justice. Participants work together to identify relevant issues and necessary skills for both campus and community-based projects. Required for M.A.T.C.H. program. Credit/no-credit only. Offered: AWSp.

B CUSP 270 Negotiation and Persuasion: Theory and Practice (5) I&S Examines effective negotiation techniques and prominent theories of persuasion, applying these techniques and insights in simulated negotiation. Students practice bargaining strategies, negotiate business contracts, job offers, interpersonal conflicts, consumer dispute, and ethical dilemmas. Offered: A.

B CUSP 290 Research in Action (2, max. 6) Rasmussen Introduces research practices, methods, and processes in the different (inter)disciplines represented on the UW Bothell campus. Students develop skills necessary to be successful scholars and researchers and learn about research that is being conducted by the UW Bothell faculty. Offered: AWSp.

B CUSP 295 Study Abroad Pre-Departure Seminar (2) I&S Prepares students for the experience of studying abroad by offering a complex look at the industry of global travel. Students also consider various approaches to "responsible travel" and reflect on ways that their own study abroad experience may both mirror and challenge the well-worn image of the "American tourist". Offered: A.

B CUSP 296 Study Abroad: CUSP (1-5, max. 15) VLPA/I&S CUSP related courses for which there are no direct University of Washington Bothell equivalents, taken through a University of Washington study abroad program.

Japanese


BJAPAN 112 First-Year Japanese (5) Elementary speaking, listening, reading, and writing skills in modern Japanese. Prerequisite: either BJAPAN 111 or score of 6-20 on JP 100A placement test. Offered: W.

BJAPAN 113 First-Year Japanese (5) Elementary speaking, listening, reading, and writing skills in modern Japanese. Prerequisite: either BJAPAN 112 or score of 21-40 on JP 100A placement test. Offered: Sp.

BJAPAN 211 Second-Year Japanese (5) VLPA Development of further skills in the spoken and written languages. Students must enroll in both a lecture and quiz section to receive credit. Prerequisite: BJAPAN 113.

BJAPAN 212 Second-Year Japanese (5) VLPA Development of further skills in the spoken and written languages. Students must enroll in both a lecture and quiz section to receive credit. Prerequisite: BJAPAN 211.

BJAPAN 213 Second-Year Japanese (5) VLPA Development of further skills in the spoken and written languages. Students must enroll in both a lecture and quiz section to receive credit. Prerequisite: BJAPAN 212.

BJAPAN 296 Study Abroad: Japanese (1-5, max. 15) VLPA Intermediate-level Japanese language courses for which there are no direct University of Washington Bothell equivalents, taken through a University of Washington study abroad program. Further study at 200-level subject to placement test scores.

Leadership

B LEAD 102 Leading with Purpose: Working in Teams (2) Develops team leader competencies needed to succeed in any leadership situation, including identifying personal strengths and challenges; connecting with others; building and maintaining trust; recognizing and understanding others. Addresses current theory and research about group and team leadership and the application to teamwork. Credit/no-credit only. Offered: Sp.

B LEAD 103 Leading with Purpose: People Skills (2) Addresses fundamental people skills necessary to effectively engage with and lead others in multiple settings. Explores the importance of self-awareness and self-esteem in building relationships, the use of effective listening and non-verbal communication, the value of empathy, giving and receiving effective interpersonal feedback, and influencing positive interpersonal engagement. Credit/no-credit only.

B LEAD 104 Leading with Purpose: Presentation Skills (2) Uses creativity and practical application to help students become stronger speakers and presenters. Utilizing theatre activities and public speaking skills, students learn to be confident speakers in a variety of contexts.

Mathematics

B MATH 121 ALGEBRA (5) Similar to the first three terms of high school algebra. Assumes no previous experience in algebra. Open only to students admitted with an entrance deficiency in mathematics.

B MATH 122 Introduction to Elementary Functions (5) Covers college algebra with an emphasis on polynomial, rational, logarithmic, exponential, and trigonometric functions. Prerequisite: either a minimum grade of 2.5 in B MATH 121, a score of 145-150 on the MPT-GSA assessment test, a score of 51-74 on the CMP-A assessment test, or a score of 28-34 on the CMP-CA assessment test.

B MATH 123 FUNCTIONS, MODELS, AND QUANTITATIVE REASONING (5) NW, QSR Explores the concept of a mathematical function and its applications. Explores real world examples and problems to enable students to create mathematical models that help them understand the world in which they live. Each idea will be represented symbolically, numerically, graphically, and verbally. Prerequisite: minimum grade of 2.5 in B MATH 122, a score of 145-153 on the MPT-AS assessment test, a score of 151 or higher on the MPT-GS assessment test, a score of 75-100 on the CMP-A assessment test, a score of 35-100 on the CMP-CA assessment test, or a score of 26-50 on the CMP-TR assessment test.

B MATH 127 LEARNING STRATEGIES IN MATHEMATICS (2) Explores applications of formulas, computational skills, and interpreting certain quantities. Reviews study techniques to enhance course comprehension, and the pros and cons of the use of calculators in a math class. Credit/no-credit only. Co-requisite: either B MATH 122 or B MATH 123. Credit/no-credit only.
B MATH 144 Calculus for the Life and Social Sciences (5) QSR
Introduction to differential and integral calculus using real world applications drawn from life and social sciences, and business. Conceptual and algebraic definitions of continuity, limits, with an emphasis on polynomial, exponential, and logarithmic functions. Statement and applications of the fundamental theorem of calculus. Prerequisite: minimum grade of 2.5 in either B MATH 123 or B CUSP 123, a score of 154-163 on the MPT-AS assessment test, a score of 51-100 on the CMP-TR assessment test, or a minimum score of 2 on either the AB or BC calculus test.

B MATH 215 Statistics for Health Sciences (5) QSR Provides an overview of basic concepts of statistics used in health sciences with opportunities to learn through experience with health-related data. Offered: jointly with BHS 215.

Spanish

B SPAN 101 Elementary (5) Methods and objectives are primarily oral-aural. Offered: A.

B SPAN 102 Elementary (5) Methods and objectives are primarily oral-aural. Prerequisite: either B SPAN 101 or score of 16-44 on SP100A placement test. Offered: W.

B SPAN 103 Elementary (5) Methods and objectives are primarily oral-aural. Prerequisite: either B SPAN 102 or score of 45-69 on SP100A placement test. Offered: Sp.

B SPAN 201 Intermediate (5) VLPA Intensive practice in speaking, reading, and writing. Review of Spanish grammar. Oral practice based on literary and cultural readings. Prerequisite: either B SPAN 103, score of 70-100 on SP100A placement test, minimum score of 51 on SP TL placement test, or score of 0-75 on SP200A placement test.

B SPAN 202 Intermediate (5) VLPA Intensive practice in speaking, reading, and writing. Review of Spanish grammar. Oral practice based on literary and cultural readings. Prerequisite: either BSPAN 201 or score of 76-145 on SP200A placement test.


B SPAN 296 Study Abroad: Spanish (1-5, max. 15) VLPA Intermediate-level Spanish language courses for which there are no direct University of Washington Bothell equivalents, taken through a University of Washington study abroad program. Further study at 200-level subject to placement test scores.

Writing

B WRIT 134 Interdisciplinary Writing (5) C Offers an interdisciplinary approach to composition, including generating a compelling topic; the articulation of a thesis; the development of supporting evidence; the ability to draw conclusions from the evidence, clear organization of the essay, correct mechanics; awareness of audience, and knowledge of resources for research. Prerequisite: may not be taken for credit if previously earned a minimum grade of 2.0 B CUSP 101, B CUSP 114, or ENGL 131.

B WRIT 135 Research Writing (5) C Strengthens performance of college-level argumentative writing and scholarly research, critical reading and thinking, and the critique and the creation of print and new media texts. Prerequisite: either B CUSP 101, B CUSP 114, B CUSP 134, or B WRIT 134.

B WRIT 137 Writing Studio (2, max. 6) Develops strategies for improving academic writing. Focuses on interpreting assignments, developing rhetorical awareness, applying self-assessment, and improving revision. Credit/no-credit only.

Science, Technology, Engineering, and Mathematics

Biology

B BIO 180 Introductory Biology I (5) NW For students intending to take advanced courses in the biological sciences or enroll in pre-professional programs. Mendelian genetics, evolution, biodiversity of life forms, ecology, conservation biology. First course in a three-quarter series (B BIO 180, B BIO 200, B BIO 220). Prerequisite: either B CHEM 142 or B CHEM 143.

B BIO 200 Introductory Biology II (5) NW For students intending to take advanced courses in the biological sciences or enroll in pre-professional programs. Metabolism and energetics, structure and function of biomolecules, cell structure and function, animal development. Second course in a three-quarter series (B BIO 180, B BIO 200, B BIO 220). Prerequisite: B BIO 180; either B CHEM 152 or B CHEM 153.

B BIO 220 Introductory Biology III (5) NW For students intending to take advanced courses in the biological sciences or enroll in pre-professional programs. Animal physiology, plant development and physiology. Final course in a three-quarter series (B BIO 180, B BIO 200, B BIO 220). Prerequisite: B BIO 200.

B BIO 230 Study Abroad: Biology (1-5, max. 15) NW Lower-division biology courses for which there are no direct University of Washington Bothell equivalents, taken through a University of Washington study abroad program.

B BIO 231 Genes, Genomes and Heredity (5) I&S/NW Servetnick Explores basic concepts of heredity, including DNA structure and function, Mendel’s rules of inheritance, and human genetic diseases. Goals include understanding current issues in the field, including genetic screening and testing, DNA fingerprinting and forensic analysis, the genetic basis of cancer, and genetically modified organisms. Recommended: one year of high school biology. Offered: jointly with BISSTS 231.

B BIO 232 Embryos, Genes and Reproductive Technology (5) I&S/NW Servetnick Explores human reproduction, embryonic development, and genetic technology. Explores the increasing use of technology used in reproduction and related issues (e.g. in vitro fertilization, genetic selection of embryos, cloning, stem cells). Recommended: one year of high school biology. Offered: jointly with BISSTS 232.

B BIO 235 Salmon and Society (5) I&S/NW J. Jensen Exploration of the complexities of salmon biology, management, and conservation from local to international scales, and the cultural, historical, and political contexts in which management decisions are made. Prerequisite: B BIO 180. Offered: A.
B BIO 240 Fundamentals of Cellular Biology for Nursing and Allied Health (5) NW Survey of cell biology, including macromolecules, cellular metabolism and reproduction, genetics, molecular biology, and evolution, especially as they apply to organisms. Lectures and weekly lab exercises. Intended for students pursuing nursing or allied health degrees; not intended for biology majors. Prerequisite: B CHEM 115 or B CHEM 143/B CHEM 144.

B BIO 241 Human Anatomy and Physiology I for Nursing and Allied Health (6) NW First in a two-quarter sequence. Structure and function of the human body, specifically the integumentary, skeletal, muscular, and nervous systems. Uses models, skeletons, microscope slides, photographs, and animal dissections. Intended for students pursuing nursing or allied health degrees; not intended for biology majors. Prerequisite: either B BIO 220 or B BIO 240.

B BIO 242 Human Anatomy and Physiology II for Nursing and Allied Health (6) NW Second in a two-quarter sequence. Structure and function of the human body, specifically the endocrine, respiratory, cardiovascular, digestive, urinary, and reproductive systems. Uses models, microscope slides, photographs, and animal dissections. Intended for students pursuing nursing or allied health degrees; not intended for biology majors. Prerequisite: B BIO 241.

B BIO 260 Medical Microbiology (6) Biology of microorganisms. Prokaryotic cell structure, function, metabolism, genetics, and biotechnology. Medical aspects of microbiology: disease mechanisms, transmission and control; human defense mechanisms; and antimicrobial drugs. Includes labs. Intended for nursing and allied health degrees; not intended for biology majors. Prerequisite: either B CHEM 115 or B CHEM 143/B CHEM 144; either B BIO 200 or B BIO 240.

B BIO 285 Seminar in Biology (1-3, max. 9) NW Supervised readings and group discussion on a specific area of biology. Topics vary with instructor.

B BIO 293 Special Topics in Biology (2-5, max. 15) Explores selected topics in biology.

B BIO 305 The Science and Ethics of Stem Cells (5) I&S/NW White Combines study of stem cell biology with discussion of bioethical issues surrounding stem cell research; includes laboratory sessions. Examines media portrayals of stem cell science and claims of proponents and opponents of stem cell research. Offered: A.

B BIO 310 Brain and Behavior (5) NW White Interdisciplinary exploration of the biological basis of human behavior, including altruism, aggression, learning, communication, and mating. Draws on neuroanatomy, neuroscience, endocrinology, ethology, genetics, and sociobiology to examine how the brain influences, and is influenced, by behavior. Readings include primary literature as well as popular publications. Offered: Sp.

B BIO 315 Human Anatomy (5) NW White Surveys human anatomy exploring the integumentary, skeletal, muscular, cardiovascular, respiratory, digestive, urinary, and reproductive system. Studies human skeletons, models, and organs, and includes the dissection of a cat and a calf heart. Emphasizes connections to human disease. Prerequisite: minimum grade of 2.0 in B BIO 220. Offered: W.

B BIO 350 Animal Physiology (5) NW White Explores basic principles of animal physiology, emphasizing cellular mechanisms that mediate physiological processes. Covers physiology in health and disease at the cellular, tissue, and organismal levels in various animals. Includes analysis and interpretation of primary literature, design of experiments to test various hypotheses in physiology. Prerequisite: B BIO 220. Offered: A.

B BIO 351 Principles of Anatomy and Physiology I (5) NW Jensen, Wacker Examines basic principles of anatomy and physiology at the cellular, tissue, and organismal levels. Considers adaptations in a broad range of animals, including humans, covering homeostasis, endocrinology, cellular neuroscience, higher brain function, sensory systems, and reproduction. First of a two quarter sequence. Prerequisite: B BIO 220. Offered: AW.

B BIO 352 Principles of Anatomy and Physiology II (5) NW Jensen, Wacker Examines anatomy and physiology at the cellular, tissue, and organismal levels. Considers adaptations in a range of animals, including humans, covering skeletal systems, muscle physiology, cardiovascular systems, respiration, osmoregulation, digestion, and energy balance. Second of a two course sequence. Offered: WSp.

B BIO 355 Behavioral Endocrinology (5) NW Wacker Explores how endocrine and neural systems interact to modulate complex behavior. Takes a comparative approach, covering the endocrine and neural bases of behavior in multiple vertebrate taxa. Topics are introduced in lecture then explored through student-led discussion of primary and secondary literature. Prerequisite: B BIO 200.

B BIO 360 Introduction to Genetics (5) NW Servetnick Explores principles of heredity including gene transmission, classical genetics, mutation, chromosomal mapping, and molecular genetics, including recombinant DNA and DNA analysis. Prerequisite: minimum grade of 1.8 in B BIO 200.

B BIO 364 Biochemistry I (5) NW White First quarter of biochemistry covering macromolecules, including proteins and enzymes. Includes chemical structure of biological molecules and their interactions, how cells synthesize and degrade biological molecules, and how these activities are organized. Emphasizes how biochemical processes interrelate. Prerequisite: B BIO 220; B CHEM 237; recommended: B CHEM 238. Offered: jointly with B CHEM 364; A.

B BIO 365 Biochemistry II (5) NW White Second quarter of biochemistry, covering chemistry of major metabolic pathways, including glycolysis, the Krebs cycle, electron transport, and metabolism of amino acids and fatty acids. Prerequisite: B BIO 364/B CHEM 364. Offered: jointly with B CHEM 365; W.

B BIO 370 Microbiology (5) NW Hillesland Explores microbiology, including microbial diversity, survival strategies, metabolism, habitats, ecology, and evolution. Covers methods used to study microbes, and the impact of microorganisms on engineering and human health. Includes laboratory. Prerequisite: B BIO 220; B CHEM 162; recommended: B CHEM 237. Offered: A.

B BIO 375 Molecular Biology (5) NW Lewis Molecular biology, focusing on structure and synthesis of informational macromolecules. Includes DNA replication and repair, chromosome structure, synthesis and processing of RNA and proteins, regulatory RNAs, amino acid metabolism, and protein trafficking and degradation. Prerequisite: B BIO 220; one of B BIO 360, B BIO 364, GENOME 361, or BIOC 405. Offered: jointly with B CHEM 375; Sp.

B BIO 380 Cell Biology (5) NW Servetnick Studies the biology of the cell, cell structure and organization, and cellular function. Covers membrane systems, information flow within cells, cell recognition, cell signaling, and malignancy, emphasizing molecular approaches to the study of cells. Prerequisite: B BIO 220; recommended: B BIO 360.

B BIO 383 Bioinformatics (5) NW Kraemer Covers principles of bioinformatics. Students develop a working knowledge of computational tools to analyze biological datasets, including DNA and protein sequence databases. Includes topics such as: database searching, sequence

B BIO 393 Special Topics in Biology (2-5, max. 20) Explores special topics in biology.

B BIO 430 Study Abroad: Advanced Biology (1-5, max. 15) NW Upper-division biology courses for which there are no direct University of Washington Bothell equivalents, taken through a University of Washington study abroad program.

B BIO 460 Developmental Biology (5) NW Servetnick Studies the biology of embryonic development. Covers major features of development of vertebrates and invertebrates. Topics include: morphological features of early development (fertilization, cleavage, gastrulation, establishment of the body plan), cell determination, pattern formation, molecular biology of early embryos, and introduction to evolutionary developmental biology. Prerequisite: B BIO 360. Offered: Sp.

B BIO 466 Evolution (5) NW, QSR Explores evolution using experiments and simple algebraic models, explains processes underlying observed patterns (e.g., evolution of HIV), predicts outcomes (e.g., health and crop management), and depicts and interprets relationships. Prerequisite: B BIO 180.

B BIO 470 Microbiology II: Microbial Interactions (5) K. Hillesland. Covers microbial genetics and genomics, methods in microbial ecology and evolution, virology, symbiosis, pathogenesis, evolution of cooperation and virulence. Requires reading primary literature in microbiology and evolution. Includes development of scholarship and grant writing skills in microbiology. Prerequisite: B BIO 370. Offered: W.

B BIO 485 Advanced Seminar in Biology (1-3, max. 6) Supervised readings and group discussion on a specific area of biology. Topics Vary. Prerequisite: B BIO 220.

B BIO 495 Investigative Biology (5) NW, QSR Provides research experience in Biology. Topic and research methods vary. Prerequisite: B BIO 220; either BES 301, BIS 315, STAT 220, or STAT 311.

B BIO 498 Independent Study in Biology (1-5, max. 15) independent study on a topic or area agreed upon by the instructor and student. Prerequisite: B BIO 220.

B BIO 499 Undergraduate Research in Biology (1-5, max. 20) Undergraduate research on a topic agreed upon by the instructor and student. Prerequisite: B BIO 220.

Chemistry

B CHEM 110 Chemistry and Life (5) NW Anderson, Roberts. Survey course exploring the chemistry of life. Topics include the molecular nature of all life, chemical processes of living organisms, chemistry of food, air, water, nutrition, pollution, genetic engineering, and drug design. Material includes basic chemical principles related to explored topics. No prior chemistry knowledge assumed.

B CHEM 115 Introductory Chemistry I (5) NW, QSR Covers atomic nature of matter, chemical reactions, stoichiometry, solution chemistry, atomic theory, chemical bonding, gas laws, and acid/base reactions. First in a three-quarter sequence designed for non-majors or students interested in pursuing a health studies field like nursing or public health. Includes laboratory. Offered: AW.

B CHEM 139 Preparation for General Chemistry (5) NW Provides preparation for taking the yearlong General Chemistry sequence. Covers the language of chemistry and develops proficiency and skills in mathematical concepts that are applied to the quantitative topics in chemistry. Offered: A.

B CHEM 143 General Chemistry I (4) QSR Covers atomic nature of matter, chemical reactions, stoichiometry, solution chemistry, atomic theory, chemical bonding, molecular geometry and structure. First of a three-quarter sequence for science and engineering majors. Prerequisite: placement into B CUSP 123 or minimum grade of 2.0 in B CHEM 139; recommended high school chemistry. Offered: AW.

B CHEM 144 General Chemistry Lab I (2) NW, QSR Laboratory experience designed to complement the knowledge gained in B CHEM 143. Emphasizes collection and analysis of laboratory results in a well prepared laboratory notebook. Prerequisite: minimum grade of 2.0 in B CHEM 143, which may be taken concurrently. Offered: AW.

B CHEM 153 General Chemistry II (4) NW, QSR Covers energy, enthalpy, thermochemistry, gas laws, properties of solutions, solids, entropy, free energy, spontaneity, and organic chemistry. Second of a three-quarter sequence for science and engineering majors. Prerequisite: minimum grade of 2.0 in B CHEM 153, which may be taken concurrently. Offered: WSp.

B CHEM 154 General Chemistry Lab II (2) NW, QSR Laboratory experience designed to complement the knowledge gained in B CHEM 153. Continued emphasis placed on quality results with the addition of writing sections of a standard lab report. Prerequisite: minimum grade of 2.0 in B CHEM 153, which may be taken concurrently. Offered: WSp.

B CHEM 157 General Learning Strategies for General Chemistry (1, max. 3) Provides practice in using quantitative tools and techniques introduced during the general chemistry lecture. Allows students to sharpen the reasoning necessary for use in science courses. Includes questions, lecture, and text review, and additional practice problems. Corequisite: either B CHEM 142, B CHEM 152, or B CHEM 162. Offered: AWSpS.

B CHEM 163 General Chemistry III (4) NW, QSR Covers chemical kinetics, chemical equilibrium, acids and bases, aqueous equilibria, transition metals and coordination chemistry, organic chemistry, biochemistry, and electrochemistry. Third of a three-quarter sequence for science and engineering majors. Prerequisite: minimum grade of 2.0 in B CHEM 153. Offered: Sp.

B CHEM 164 General Chemistry Lab III (2) NW, QSR Laboratory experience designed to complement the knowledge gained in B CHEM 163. Continued emphasis placed on quality results with the writing of standard lab reports. Prerequisite: minimum grade of 2.0 in B CHEM 163, which may be taken concurrently. Offered: SpS.

B CHEM 237 Organic Chemistry I (4) NW Structure, nomenclature, reactions, and synthesis of the main types of organic compounds. No organic laboratory accompanies this course. First in a three quarter sequence. Prerequisite: minimum of a 2.0 in either B CHEM 162 or B CHEM 163 and B CHEM 164.

B CHEM 238 Organic Chemistry II (4) NW Further discussion of physical properties and transformations of organic molecules, especially aromatic and carbonyl compounds. Second in a three-quarter sequence. Prerequisite: minimum grade of 1.7 in B CHEM 237.

B CHEM 239 Organic Chemistry III (4) NW Third course for students planning to take three quarters of organic chemistry. Polyfunctional compounds and natural products, lipids, carbohydrates, amino acids, proteins, and nucleic acids. Includes introduction to membranes, enzyme mechanisms, prosthetic groups, macromolecular conformations and supramolecular architecture. Prerequisite: minimum grade of 1.7 in B CHEM 238.
Climate Science

B CLIM 300 Fundamentals of Weather and Climate (5) NW *Jaffe, Salatthe* Comprehensive introduction to the science of the atmosphere and climate systems including: composition and structure of the atmosphere; atmospheric physics; thermodynamic processes; solar and terrestrial radiation; atmospheric dynamics and large-scale circulation; and climate processes and dynamics. Prerequisite: minimum grade of 2.0 in each of B CUSP 124, B CUSP 125, and either B PHYS 121 or B PHYS 122. Offered: A.

B CLIM 320 Impacts of Climate Change (5) J&S/NW *Salatthe* Surveys climate change implications for natural and human systems, both globally and locally. Topics include natural science, human health, and policy issues; climate system processes, air/water quality, ecosystem services, human health, extreme weather, flooding, snow pack, stream flow, vulnerability assessment, adaptation, and mitigation strategies. Prerequisite: B BIO 180, or BIS 280/BIS 281. Offered: Sp.

Electrical Engineering


B EE 235 Continuous Time Linear Systems (5) Introduction to continuous time signal analysis. Basic signals including impulses, pulses, and unit steps. Periodic signals. Convolution of signals. Fourier series and transforms in discrete and continuous time. Computer laboratory. Prerequisite: minimum grade of 1.5 in B EE 233; either BST 307, MATH 136, MATH 307, or AMATH 351 any of which may be taken concurrently; either B CUSP 150 or PHYS 122; either CSS 161 or CSE 142, which may be taken concurrently.

B EE 271 Digital Circuits and Systems (5) Overview of digital computer systems. Digital logic, Boolean algebra, combinational and sequential circuits and logic design, programmable logic devices, and the design and operation of digital computers, including ALU, memory, and I/O. Weekly laboratories. Prerequisite: either CSS 161 or CSE 142.

B EE 331 Devices and Circuits I (5) Physics, characteristics, applications, analysis, and design of circuits using semiconductor diodes and field-effect transistors with an emphasis on large-signal behavior and digital logic circuits. Classroom concepts are reinforced through laboratory experiments and design exercises. Prerequisite: minimum grade of 1.7 in either B EE 233 or EE 233.

B EE 332 Devices and Circuits II (5) Examines the characteristics and models of bipolar and field-effect transistors, linear circuit applications, including low and high frequency analysis of differential amplifiers, current sources, gain stages and output stages, circuitry of op-amps, their configurations, stability and compensation. Prerequisite: minimum grade of 1.8 in B EE 331.

B EE 341 Discrete Time Linear Systems (5) Discrete time signals and systems, impulse response, convolution, Z-transforms, discrete time Fourier analysis. Computer laboratory. Prerequisite: minimum grade of 1.7 in either B EE 235 or EE 235.

B EE 361 Applied Electrodynamics (5) Introductory electromagnetic field theory and Maxwell's equations in integral and differential forms; uniform plane waves in linear media; boundary conditions and reflection and transmission of waves; guided waves; transmission lines and Smith chart; and electrostatics. Prerequisite: minimum grade of 2.0 in B EE 233, MATH 324; B PHYS 123.

B EE 371 The Business of Technology (5) *Berger* Methods for aiding software development, communicating progress to customers/management, and developing marketing strategies for the product. Incorporates social, psychological, and ethical issues. May not be repeated. Offered: jointly with CSS 371.

B EE 381 Introduction to Electric Power Generation (5) NW, QSR *Collins* Reviews the design and operation of power plants for the
B EE 417 Digital Communication (5) Covers the basic principles and techniques of digital signal transmission and reception. Examines the process of converting analog signals to digital formats, explores various digital modulation schemes, analyzes the limitation imposed by noise on communication systems, and studies the design of optimum receivers. Prerequisite: minimum grade of 1.5 in B EE 341; BST 390.

B EE 425 Microprocessor System Design (5) Examines the specification, design of a microprocessor-based computer system that are dedicated to specific application. Covers low-level programming, memory systems, I/O and system debugging. Students design an embedded microprocessor system using computer-aided design tools. Prerequisite: minimum grade of 2.0 in B EE 271.

B EE 433 Electronic Circuit Design (5) Provides an understanding of modern analog solid-state circuit design techniques which are used for instrumentation purposes. Emphasizes design techniques using integrated circuits, particularly operational amplifiers. Prerequisite: minimum grade of 1.5 in B EE 332.

B EE 436 Biomedical Instrumentation I (5) Introduction to the basic principles of medical electronic instruments. Covers biopotentials, biosignal amplifiers, electrical safety, the design of clinical electronics and FDA regulations. Students design biomedical signal measurement systems using analog and digital circuits and perform biomedical signal analysis. Prerequisite: B EE 235; B EE 332.

B EE 437 Biomedical Instrumentation II (5) Introduction to the principles of measuring human vital signals such as blood pressure, heart rate, and respiratory rate. Covers medical imaging techniques (CT, MRI, PET) and working principal of clinical ultrasound systems. Students design biomedical signal measurement systems and perform basic biomedical image and signal analysis. Prerequisite: B EE 436.

B EE 440 Electronic Test and Measurement (5) Introduction to the principle of metrology and modern electronic testing and measurement. Topics covered include types of testing and design-for-testability techniques such as scan-path, boundary scan and built-in-self test. The understanding of theoretical concepts of testing related subjects are augmented through extensive lab projects using Verilog and Labview tools. Prerequisite: B EE 271. Offered: Sp.

B EE 442 Digital Signal Processing (5) Examines methods and techniques of digital signal processing. Reviews sampling theorems, A/D and D/A converters, demodulation by quadrature sampling, Z-transform methods, linear shift-invariant systems, difference equations, signal flow graphs for digital networks, canonical forms, design of digital filters, practical considerations, IIR and FIR filters; and digital Fourier transforms and FFT techniques. Prerequisite: minimum grade of 1.5 in B EE 341.

B EE 447 Introduction to Control Systems (5) Provides an introduction to analysis and design of control systems with applications ranging across electrical, mechanical, and electromechanical systems. Topics include system modeling, performance and stability analysis using root locus, Bode and Nyquist plots, and designs of PID and lead-lag compensators. Prerequisite: minimum grade of 1.5 in B EE 235.

B EE 477 Power System Fundamentals (5) Ghofrani Basic power system analytical concepts, three-phase systems, impedance, steady-state network analysis, normalization, transmission lines, transformers, and synchronous machines. Prerequisite: minimum grade of 1.5 in B EE 233.

B EE 478 Power System Analysis (5) M. GHOFRANI Topics include the iteration and simulation techniques as well as the numerical solutions required to analyze power and energy systems; power flow; symmetrical components; and faulted system analysis and stability study. Prerequisite: minimum grade of 1.5 in B EE 477.

B EE 482 Semiconductor Devices (5) Covers fundamentals of semiconductor theory: carrier diffusion and drift; concept of direct and indirect energy gap materials, effective mass of mobile carriers; device physics; homo- and heterojunctions, metal-semiconductor junction, bipolar transistor, and MOS transistors. Prerequisite: minimum grade of 1.5 in B EE 332.

B EE 484 Sensors and Sensor Systems (5) Focuses on understanding a broad variety of sensor technologies and their application as systems in everyday use. Provides both a foundation to move into a particular area of sensor technology and also a means to apply appropriate sensors for particular applications. Prerequisite: minimum grade of 1.5 in both B EE 335 and B EE 331.

B EE 486 Fundamentals of Integrated Circuit Technology (5) Introduces the fundamentals of IC technologies. Covers the microelectronic processing technology, including evaporation, sputtering, epitaxial growth, diffusion, ion implantation, oxidation, chemical vapor deposition, and photoreists. Introduces the design considerations for transistors, materials and process characterization, and future trends. Prerequisite: minimum grade of 1.5 in B EE 332.

B EE 490 Special Topics in Electrical Engineering (1-5, max. 10) Explores special topics in electrical engineering.

B EE 495 Capstone Project in Electrical Engineering I (2) First of a two-course sequence capstone design experience. Students design a system, component, or process with specific realistic design constraint such as cost, engineering standards, and social impact. Prerequisite: minimum grade of 1.5 in both B EE 332 and B EE 425, either of which may be taken concurrently. Offered: AWSp.

B EE 496 Capstone Project in Electrical Engineering II (3) Berger, Ghirmay Second of a two-course sequence capstone design experience. Individual or small-team project that is representative of the solution to an open-ended design problem in electrical engineering. May be undertaken as part of an industrial internship with direct supervision of the EE faculty and industrial sponsor. Includes many aspects of an industrial research and development product development lifecycle. Prerequisite: minimum grade of 1.5 in B EE 495. Offered: AWSp.

B EE 498 Independent Study in Electrical Engineering (1-5, max. 10) Independent study on a topic or area agreed upon by the instructor and student.

B EE 499 Undergraduate Research in Electrical Engineering (1-5, max. 20) Undergraduate research on a topic agreed upon by the instructor and student.

Engineering

B ENGR 310 Computation Physical Modeling (5) P. MOURAD Computational methods for analyzing mathematical representations of physical processes. Development of judgment for mathematical tool selection and identification of plausible but incorrect computational solutions and movement to correct solutions. Taught via in-class examples and programming with computational linear algebra manifest in MATLAB. Prerequisite: minimum grade of 2.0 in ST MATH 307. Offered: AW.

B ENGR 320 Fundamentals of Materials Science (5) Properties of metals, ceramics, polymers, and composites in relation to their internal
subatomic, microscopic, and macroscopic structures. Incorporates materials testing, analysis of failure, and engineering of materials to achieve desired function and performance. Includes laboratory. Prerequisite: minimum grade of 1.5 in B CHEM 143/B CHEM 144. Offered: A.

Mechanical Engineering

B ME 221 Fundamentals of Solid Mechanics I: Statics (4) Applies vector analysis to equilibrium of rigid body systems and subsystems. Includes force and moment resultants, free body diagrams, internal forces, and friction. Analyzes basic structural and machine systems and components. Prerequisite: minimum grade of 2.0 in either STMATH 126 or MATH 126; minimum grade of 2.0 in either B PHYS 121 or PHYS 121.

B ME 331 Thermal Fluids I (5) Basic conservation principles of thermodynamics, fluid mechanics, and heat transfer. Fluid and thermal properties of materials, and the ideal gas equation of state. Conservation of mass, momentum, and energy for closed and open systems. Prerequisite: B CHEM 143/B CHEM 144; STMATH 307; B PHYS 121; B ENGR 310, which may be taken concurrently.

Physics

B PHYS 101 Introduction to Astronomy (5) NW, QSR Conceptual introduction to the science of astronomy. Studies the planets, solar systems, stars, and galaxies from a conceptual, non-mathematical standpoint.

B PHYS 114 General Physics (4) NW, QSR Basic principles of physics presented without use of calculus. Suitable for students majoring in technically oriented fields other than engineering or the physical sciences. Mechanics. Recommended: working knowledge of algebra and trigonometry; one year high school physics; concurrent registration in B PHYS 117.

B PHYS 115 General Physics (4) NW Basic principles of physics presented without use of calculus. Suitable for students majoring in technically oriented fields other than engineering or the physical sciences. Heat and electromagnetism. Prerequisite: B PHYS 114; recommended: concurrent registration in B PHYS 118.

B PHYS 116 General Physics (4) NW Basic principles of physics presented without use of calculus. Suitable for students majoring in technically oriented fields other than engineering or the physical sciences. Sound, light, and modern physics. Prerequisite: B PHYS 115; recommended: concurrent registration in B PHYS 119.

B PHYS 117 General Physics Laboratory (1) NW Mechanics laboratory. Prerequisite: B PHYS 114 which may be taken concurrently. Credit/no-credit only.

B PHYS 118 General Physics Laboratory (1) NW Heat and electromagnetism laboratory. Prerequisite: B PHYS 115 which may be taken concurrently. Credit/no-credit only.

B PHYS 119 General Physics Laboratory (1) NW Sound, light, and modern physics laboratory. Prerequisite: B PHYS 116, which may be taken concurrently. Credit/no-credit only.

B PHYS 121 Mechanics (5) NW, QSR Basic principles of mechanics and experiments in physics for physical science and engineering majors. Lecture tutorial and lab components must all be taken to receive credit. Credit is not given for B PHYS 114 and B PHYS 121. Prerequisite: B CUSP 124, which may be taken concurrently; recommended: one year high school physics.

B PHYS 122 Electromagnetism and Oscillatory Motion (5) NW Basic principles of electromagnetism, the mechanics of oscillatory motion, and experiments in these topics for physical science and engineering majors. Lecture tutorial and lab components must all be taken to receive credit. Credit is not given for both B PHYS 115 and B PHYS 122. Prerequisite: B CUSP 125, which may be taken concurrently; B PHYS 121.

B PHYS 123 Waves (5) NW Electromagnetic waves, optics, waves in matter, and experiments in these topics for physical science and engineering majors. Lecture tutorial and lab components must all be taken to receive credit. Credit is not given for both B CUSP 145 and B CUSP 151. Prerequisite: B PHYS 122.

B PHYS 221 Classical Mechanics (5) NW, QSR Covers Newtonian dynamics, planetary orbits, drag forces, energy, oscillators, chaos theory, and more. Some emphasis placed on Lagrangian and Hamiltonian dynamics. Prerequisite: B PHYS 123; STMATH 307; STMATH 308.

B PHYS 222 Modern Physics (5) NW, QSR Provides an introduction to the theories of relativity and quantum mechanics. Covers topics such as atomic physics, solid state/condensed matter physics, and nuclear physics. Prerequisite: minimum grade of 2.0 in both B PHYS 123 and STMATH 307.

B PHYS 224 Thermal Physics (5) NW, QSR Studies heat, temperature, and forms of thermal energy. Covers the laws of thermodynamics and some statistical mechanics. Prerequisite: minimum grade of 2.0 in B PHYS 123.

B PHYS 305 The Cosmos (5) NW, QSR Provides a conceptual introduction to the foundations and current theories of cosmology. Studies black holes, time travel, the Big Bang, and dark matter. Prerequisite: minimum grade of 2.0 in both B CUSP 122 and B CUSP 134.

B PHYS 321 Electricity and Magnetism I (5) NW Covers electrostatics, including Gauss’ law, the electric field, electric potential, conductors, and dielectric media. The first course in a three-quarter sequence covering electromagnetic theory. Prerequisite: minimum grade of 2.0 in B PHYS 227; minimum grade of 2.0 in either STMATH 324 or MATH 324.

B PHYS 324 Quantum Mechanics I (5) NW Introduction to nonrelativistic quantum mechanics. Covers the postulates of quantum mechanics, Schrodinger wave equations, the Uncertainty Principle, angular momentum, and the hydrogen atom. First part of a two-quarter sequence. Prerequisite: minimum grade of 2.0 in B PHYS 222; minimum grade of 2.0 in either STMATH 324 or MATH 324; minimum grade of 2.0 in PHYS 227.

Consciousness

BCONSC 321 Consciousness Studies Introduces the field of consciousness studies. Explores the interaction of mind and body through scientific studies of dreams, intuition, and intention, and anomalous phenomena. Includes the role of meditation and contemplative practices in physical and psychological well-being.

BCONSC 322 Exploration of Consciousness Explores consciousness studies. Investigates the impact of thoughts and emotions on brain functioning, biological plasticity, and psychological development. Topics include meditation and neurosciences, animal consciousness, environmental awareness, and the convergence of science and spirituality. Prerequisite: BCONSC 321.

BCONSC 323 Psychology and Science of Dreams Explores the psychology and science of dreams. Topics include the history and theories of dreams, modern experimental studies of dreaming and dream content,
lucid dreams, contribution of dreams to scientific creativity, and dream incubation and interpretation techniques.

BCONSC 325 Mind and Matter Explores the relationship between mental and physical events in the constitution and representation of reality. Integrates perspectives from philosophy of mind and modern physics to build insight into the relationship between matter and mind; the nature of consciousness, and possibilities for free will. Prerequisite: BCONSC 322.

BCONSC 424 Consciousness and the Natural World Analyzes increasingly complex models of consciousness in the natural world and evaluates their ethical implications. Aims to help understand the power of scientific paradigms and their influence on human understanding and of interaction with other species. Prerequisite: BCONSC 322.

BCONSC 425 Consciousness and Well-Being Explores the complex processes involved in implicit cognitive and neuroplasticity; the role of thought, emotion, and meditation in shaping the brain; and possibilities for enhancing human psychological development. Prerequisite: BCONSC 322.

Science and Technology

BST 200 Introduction to Climate Science (5) I&S/NW Introduces climate science and global climate change. Topics include the scientific method, earth history, global biogeochemical cycles, population and energy consumption, and greenhouse gas emissions; fundamental climate science, energy conservation, alternative energy, climate and the media; and climate policy. Includes service project around issues of energy or climate. Recommended: B CUSP 098 or higher, which may be taken concurrently.

BST 293 Special Topics (5, max. 15) Examines different subjects or problems from an interdisciplinary framework.

BST 381 Introduction to Electric Power Generation (5) NW, QSR Collins Reviews the design and operation of power plants for the generation of electric power. Covers thermodynamic principles of energy conversion, cycle analysis, combustion, nuclear and hydroelectric power, emerging energy technologies, plant economics, emission controls, and environmental impact. Prerequisite: B CUSP 126; B PHYS 122. Offered: jointly with B EE 381.

BST 445 Political Economy of Energy (5) I&S Covers the theoretical and practical issues in developing public policy to meet demands for efficient, secure, and environmentally sustainable energy. Student evaluate energy technologies in terms of scientific merit, economics, environmental impacts, and political contexts, and propose technologically sound and politically feasible solutions. Recommended: junior standing.

BST 446 Sustainable Energy (5) NW Collins Covers the principles of energy conservation and technologies for generating and transmitting energy sustainably to meet growing energy demand. Discusses the status and prospects of current and emerging energy choices, including fossil and nuclear fuels, biomass, wind, and solar. Prerequisite: B CUSP 124; either B CHEM 142, B PHYS 114, or B PHYS 121.

BST 493 Advanced Topics in Science and Technology (2-5, max. 15) Explores selected advanced topics in science and technology.

BST 498 Independent Study in Science and Technology (1-5, max. 15) Independent study on a topic or area agreed upon by the instructor and student.

BST 499 Undergraduate Research in Science and Technology (1-5, max. 20) Undergraduate research on a topic agreed upon by the instructor and student.

Computing and Software Systems

CSS 106 Computer Animation (5) VLPA/NW, QSR Uses the creation of computer generated animation as a means to study communication of ideas based on digital media. Studies modeling, rendering, and animation with hands-on experimentation and practices.

CSS 107 Introduction to Programming through Animated Storytelling (5) VLPA, QSR Introduces the fundamentals of programming using storytelling in virtual worlds; includes creation of characters, games, short stories, storyboards, 3-D motion, classes, methods, and functions. Contemporary topics vary addressing social, scientific, and ethical issues of information technology.

CSS 161 Fundamentals of Computing (5) NW, QSR Introduces programming concepts within social, cultural, scientific, mathematical, and technological context. Topics include programming fundamentals (control structures, data types and representation, operations, functions and parameters), computer organization, algorithmic thinking, introductory software engineering concepts (specifications, design, testing), and social and professional issues. Co-requisite: CSSSKL 161.

CSS 162 Programming Methodology (5) NW, QSR Transition from basic programming skills to a rigorous process of software development. Familiarization with higher level programming techniques (recursion, generic programming, stacks, queues, trees, searching, and sorting). Emphasizes connection between algorithmic thought and implementation. Prerequisite: minimum grade of 2.7 in CSS 161; co-requisite: CSSSKL 162.

CSS 198 Supervised Study (1-5, max. 6) Supervised exploration of computing-related topic or concept.

CSS 199 Computing Research (1-5, max. 6) Exploration of computing research activities and processes as specified in a contract with a faculty member.

CSS 205 Women in STEM Seminar: College Life (1, max. 6) I&S, DIV Develop effective academic strategies for women in science, technology, engineering and mathematics. Explores the representation of women in STEM as they are portrayed in literature and film. Discusses issues if STEM and gender including: mentors and support groups, social issues, role models and stereotyping, and earning respect. Credit/no credit only.

CSS 211 Computers and Society (5) I&S Exploration and discussion of issues related to the development, support, and usage of computing technology in today's society. Topics vary each quarter but may include coverage of areas such as intellectual property rights, cybersecurity, privacy, freedom of speech, liability, ethics, social justice, diversity, and labor.

CSS 225 Physics and Chemistry of Computer Components and Their Manufacture (5) QSR Jackets Examination of the basic physics and chemistry underlying the design and manufacture of computer components. Introduction to the electronic structure of the solid state, the nature of p-n junctions, and basic transistor design. Aspects of materials and polymer science and photolithography employed in microchip manufacture. May not be repeated.

CSS 233 Interactive Media Technologies (5) QSR Examines the core concepts and technologies used to design, build, and support interactive media applications. Creates projects using media production processes and tools and applies programming constructs, incorporates text and multimedia content, and uses standard formats and languages.
CSS 263 Programming and Discrete Mathematics (5) Abstract representation as tools for software design. Fundamentals of mathematical thinking (predicate calculus, functions, relations, proofs, computational complexity) applied to abstract data types (lists, stacks, queues) and algorithmic strategies (divide-and-conquer, grey). Pointers and memory management in programming languages. Prerequisite: minimum grade of 2.5 in both CSS 162 and B CUSP 124.

CSS 290 Topics in Computing (1-5, max. 10) Examines current topics and issues associated with computing that are of broad relevance.

CSS 301 Technical Writing for Computing Professionals (5) Explores the most effective methods of communication based on the common expectations for computing and other engineering professionals. Examines various writing patterns commonly used in technical writing, including compare/contrast, persuasive, process, instructions, and problem/solution, and when/why is used. Prerequisite: either ENGL 182, H CDE 231, or B CUSP 135.

CSS 310 Information Assurance and Cyber Security (5) Provides theoretical and practical introduction to information assurance and cyber security (IAC). Includes methods and practices for securing information and information systems. Covers how vulnerabilities arise, recognizing evolving threats, and mitigating them. Explores the role of risk analysis, information privacy, accountability, and policy.

CSS 330 Topics in Mathematics for Software Development (1-5, max. 10) Topics in intermediate mathematics as applied within the context of computer software application development. Topics chosen from the fields of intermediate calculus and finite mathematics.

CSS 332 Programming Issues with Object-Oriented Languages (2) Zander Covers language and development/environment differences, including data types, control structures, arrays, and 1/0, addressing and memory management issues including pointers, references, functions, and their passing conventions; object-oriented design specifics related to structured data and classes. Co-requisite: CSS 342 Credit/no-credit only.

CSS 337 Secure Systems (5) Prepares students for deploying and operating secure systems on a heterogeneous distributed infrastructure. Covers cybersecurity principles, methods, and tools used to protect against and detect external and internal threats. Addresses ethical and professional issues for cybersecurity personnel. Assumes students have basic computer administration skills. Prerequisite: CSS 161.

CSS 341 Fundamentals of Programming Theory and Applications (5) Fundamental concepts and techniques for analysis, design and implementation of computer programming. Prerequisite: CSS 161; may not be repeated.

CSS 342 Data Structures, Algorithms, and Discrete Mathematics I (5) Integrating mathematical principles with detailed instruction in computer programming. Explores mathematical reasoning and discrete structures through object-oriented programming. Includes algorithm analysis, basic abstract data types, and data structures. Prerequisite: minimum grade of 2.5 in CSS 162; B CUSP 124; may not be repeated.

CSS 343 Data Structures, Algorithms, and Discrete Mathematics II (5) Stiber, Zander Develops competencies associated with problem-solving, algorithms, and computational models. Covers abstract data types and data structures, efficiency of algorithms, binary tree representations and traversals, searching, dictionaries, priority queues, hashing, directed graphs and graph algorithms, and language grammars. Prerequisite: minimum grade of 2.0 in CSS 301; minimum grade of 2.0 in either CSS 263 or CSS 342; minimum grade of 2.0 in either B CUSP 125 or MATH 125; may not be repeated.

CSS 350 Management Principles for Computing Professionals (5) Erdly Through a team software project, explores critical interpersonal, communication, leadership, decision-making, social, and cultural theories drawn from contemporary research in anthropology, sociology, psychology, and business. Prerequisite: CSS 301, which may be taken concurrently; may not be repeated.

CSS 360 Software Engineering (5) Cioch Surveys the software engineering processes, tools, and techniques used in software development and quality assurance. Topics include life-cycle models, process modeling, requirements analysis and specification techniques, quality assurance techniques, verification and validation, testing, project planning, and management. Prerequisite: either CSS 263, CSS 341 or CSS 342 which may be taken concurrently; may not be repeated.

CSS 370 Analysis and Design (5) Cioch Methods and tools to capture and communicate requirements, proposed solutions, and design to management, customers, and software developers. Data, process, and object modeling using languages such as data flow diagrams, entity/relationship diagrams, and unified modeling language use cases and class and sequence diagrams. Prerequisite: 2.0 in CSS 301; 2.0 in either CSS 263 or CSS 342; 2.0 in CSS 360; may not be repeated.

CSS 371 The Business of Technology (5) Berger Methods for aiding software development, communicating progress to customers/management, and developing marketing strategies for the product. Incorporates social, psychological, and ethical issues. May not be repeated. Offered: jointly with B EE 371.

CSS 383 Bioinformatics (5) NW Kraemer Covers principles of bioinformatics. Students develop a working knowledge of computational tools to analyze biological datasets, including DNA and protein sequence databases. Includes topics such as: database searching, sequence alignment (DNA, RNA, and protein), BLAST, phylogeny, evolution, functional genomics, gene expression/microarray analysis, and protein analysis. Offered: jointly with B BIO 383.

CSS 385 Introduction to Game Development (5) VLPA/NW Sung Examines the fundamental issues in designing and developing computer video games; creative and artistic elements, story narration, software architecture, interaction model, mathematic, physics, special effects, and in-game AI logic. Experiences elements in game design: world setting, game play, and interface; and experiences implementing games: conceptualization, prototyping, and play testing. Prerequisite: CSS 342; SMATH 308. Offered: Sp.

CSS 390 Special Topics (1-5, max. 10) Examines current topics and issues associated with computing and software systems.

CSS 405 Women in STEM Seminar: Career/Professional Life (1, max. 6) I&S, DIV Develops effective academic strategies for women in science, technology, engineering and mathematics. Explores the representation of women in STEM as they are portrayed in literature and film. Discusses issues of STEM and gender including: earning respect, work-life balance, social issues, connection and networks, job hunting and technical interviews. Credit/no-credit only.

CSS 411 Computing Technology and Public Policy (5) I&S In depth investigation of economical, political, organizational, and societal ramifications of using computing technology. Evaluates current policy approaches, determines trends, and proposes changes. Topics vary by quarter.

CSS 421 Introduction to Hardware and Operating Systems (5) NW An introduction to the architecture of modern microprocessors and operating systems. Examines the basic theories and concepts of how
hardware and software cooperatively interact to accomplish real-world tasks. Prerequisite: either CSS 263 or CSS 342.

CSS 422 Hardware and Computer Organization (5) Berger An introduction to the architecture, operation, and organization of a modern computing machine. Topics covered include basic logic operations, state machines, register models, memory organization, peripherals, and system issues. Assembly language taught in order to understand the instruction set architecture and memory model of the computer. Prerequisite: CSS 342; may not be repeated.

CSS 427 Introduction to Embedded Systems (5) Berger Introduction to the process of specifying and designing embedded systems. Follows the embedded systems development; software and hardware partitioning, processor selection, real-time operating systems, coding in assembly language and C, debugging, and testing. Lab experiments reinforce fundamental concepts using embedded design and debug tools. Prerequisite: CSS 422 or B EE 422; may not be repeated.

CSS 428 Advanced Embedded Systems (5) Advanced topics and experiments in embedded systems. Topics may include real-time performance analysis, mission critical software design, RTOS kernel design, memory management, flash programming, VHDL design, real-world interfacing, and real-time debugging tools. Lab experiments include A/D conversion, flash programming, hard real-time interrupt-driven input/output. Prerequisite: CSS 427.

CSS 430 Operating Systems (5) Principles of operating systems, including process management, memory management, auxiliary storage management, and resource allocation. Focus on the structure of the popular desktop and real-time operating systems. Prerequisite: minimum grade of 2.0 in CSS 343; may not be repeated.

CSS 432 Network Design (5) Examines methods for designing LANs and WANs that optimize Quality of Service (QoS). Covers theoretical and practical aspect of the OSI protocol stack; routing protocols including OSPF and BGP; networking management/architecture; router configuration; security; and Internet policies. Explores emerging networking technologies. Prerequisite: CSS 301; CSS 342; may not be repeated.

CSS 434 Parallel and Distributed Computing (5) Fukuda Concepts and design of parallel and distributed computing systems. Topics include: fundamentals of OS, network and MP systems; message passing; remote procedure calls; process migration and mobile agents; distributed synchronization; distributed shared memory; distributed file system; fault tolerance; and grid computing. Prerequisite: CSS 343.

CSS 442 Object-Oriented Programming and Design (5) Zander Topics include advanced programming methodologies for PC/workstation-based GUI applications and object-oriented modeling, programming, and design. Study and design applications in a large-scale team environment. Introduce design patterns. Prerequisite: CSS 343; CSS 370; may not be repeated.

CSS 443 Advanced Programming Methodologies (5) Sung Examines programming methodologies, both theoretical and practical application aspects. From a theoretical aspect, explores approaches to analyzing and designing algorithms. In relation to practical applications, studies thread-based distributed application development. Prerequisite: CSS 343; may not be repeated.

CSS 448 Introduction to Compilers (5) Zander Introduction to the structures and organization of programming languages; fundamentals of translation; regular expressions and context-free grammars; syntax and lexical analysis, symbol tables, semantics and parsing, code generation; translation techniques such as LR, LL, and recursive descent. Prerequisite: CSS 343; may not be repeated.

CSS 450 Computer Graphics (5) Sung Introduces the fundamental concepts in computer graphics: camera model, illumination models, hardware shading, transformation pipeline, scene graphs, texture mapping, and simple modeling and animation techniques. Prerequisite: minimum grade of 2.0 in CSS 342; may not be repeated.

CSS 451 3-D Computer Graphics (5) Sung Introduces practical and popular three-dimensional (3-D) graphic algorithms. Examines modeling (how to build 3-D objects), animation (how to describe the motion of objects), and rendering (how to generate images of 3-D objects in animation). Prerequisite: CSS 342; STMAHT 308; may not be repeated.

CSS 455 Introduction to Computational Science and Scientific Programming (5) Jackel Introduction to principles and fundamental algorithms of scientific computing, including applied linear algebra and numerical methods. Group projects address current computational problems in the physical, biological, and life sciences. Prerequisite: B CUSP 125; either CSS 162 or CSS 341; may not be repeated.

CSS 457 Multimedia and Signal Computing (5) Stiber How multimedia information is captured, represented, processed, communicated, and stored in computers. Topics include: physical properties of sound and images, digitization, digital signal processing, filtering, compression, JPEG and MPEG algorithms, and storage and network communication. Prerequisite: either CSS 263 or CSS 342; may not be repeated.

CSS 458 Fundamentals of Computer Simulation Theory and Application (5) Rasmussen Covers all aspects of computer simulation including theory, implementation, and application. Presents real-life interdisciplinary examples. Final student project models a real-life situation with a computer simulation. Prerequisite: either CSS 263 or CSS 342; may not be repeated; recommended: statistics.

CSS 461 Software Project Management (5) Cioch Fundamental skills required for effective software project management, including project planning and tracking and people management. Topics include risk analysis, project scope, scheduling, resource allocation, cost estimation, negotiation, monitoring and controlling schedule, software metrics, quality management, process improvement, staffing, leadership, motivation, and team building. Prerequisite: CSS 360; may not be repeated.

CSS 473 Entrepreneurship Seminar (5) Creates or works within a new venture. New venture situations include for-profit and non-profit companies and launching new products/services within existing companies. Develops a business plan. Offered: jointly with B BUS 443.

CSS 474 Product Development Lab (5) Includes a technology project and product development within the dynamic of time-pressured competition. Focuses on systematically improving products to beat competition and win the customer. Topics include benchmarking, competitive intelligence, and managing small group project development. Offered: jointly with B BUS 444.

CSS 475 Database Systems (5) Methods for obtaining requirements and designing database systems; differences between hierarchical, relational, and network database designs; techniques for designing and coding effective reporting procedures. Prerequisite: either CSS 263, CSS 341 or CSS 342; CSS 360; may not be repeated.

CSS 478 Usability and User-Centered Design (5) Application of human information processing models, theories and human-computer interaction principles for designing interactive systems. Emphasis is on how usability methods could be incorporated into the system design lifecycle. Topics include user survey, heuristic evaluation, task analysis and experimental testing. Prerequisite: CSS 360; may not be repeated.

CSS 480 Principles of Human-Computer Interaction (5) Erdly
Examines fundamentals of human perception, human cognition, attention and memory constraints; role of user experience and intelligence; input and output devices; standards compliance; design of systems for individual versus collaborative work settings; rapid prototyping, user-centered design techniques, and design evaluation methods. Prerequisite: CSS 360; may not be repeated.

CSS 482 Expert Systems (5) Theory and application of expert systems: computer systems that capture and use human expertise. Applications include computer configuration, fault diagnosis, computer-aided instruction, data interpretation, planning and prediction, and process control. Prerequisite: CSS 343; may not be repeated.

CSS 485 Introduction to Artificial Neural Networks (5) Stibor Application of biological computing principles to machine problem solving. State of the art in artificial neural networks (ANNs), including vision, motor control, learning, data analysis. Topics include ANN architectures, algorithms: perceptrons, Widrow-Hoff, backpropagation, Hebbian networks. Prerequisite: CSS 343; may not be repeated; recommended: prior exposure to linear algebra, probability, and calculus.

CSS 487 Computer Vision (5) Olson Methods for extracting content from digital images. Topics typically include linear filters, edge detection, segmentation, stereo vision, motion estimation, and object recognition: Examinations of applications of computer vision, such as image databases and robot navigation. Prerequisite: CSS 343.

CSS 490 Special Topics in Computing and Software Systems (1-5, max. 20) Examines current topics and issues associated with computing and software systems. Offered: AWSpS.

CSS 496 Applied Computing Capstone (5) Group seminar project requires software development and research project in applied computing. Objectives include: integrating minor or concentration with computing, reviewing professional literature, writing technical documents, and presenting project results to technologists/end-users. Prerequisite: CSS 301; CSS 342; CSS 350; CSS 360; CSS 421; three additional CSS courses.

CSS 497 Computer Science and Software Engineering Capstone (11-10), max. 10) Completion of project as delineated in a contract between student, faculty advisor, and community sponsor. Prerequisite: CSS 350; CSS 370; CSS 422; CSS 430; two additional CSS courses.

CSS 498 Independent Study (1-5, max. 10) Individual study by arrangement with instructor.

CSS 499 Undergraduate Research (0-5, max. 10) Design and implementation of a research study as specified in a contract with a faculty member.


CSS 502 Data Structures and Object-Oriented Programming II (4) Covers advanced data structures including trees, balanced trees, heaps, graphs, and hash tables along with associated algorithms. Covers object-oriented programming with a focus on design and implementation of problems using inheritance and polymorphism. Introduces formal automata theory. Prerequisite: minimum grade of 2.7 in CSS 501.

CSS 503 Systems Programming (4) Examines the logical design and programming aspects of operating systems and network communication. Topics include processes, threads, synchronization, deadlocks, memory management, virtual memory, file systems, and client-server network programming. Prerequisite: minimum grade of 2.7 in CSS 502.

CSS 506 Software Development Processes (2) Provides a foundation in software engineering processes, methods, and practices associated with prescriptive and agile software process models. Includes the creation of artifacts commonly used to communicate, justify, and manage computing projects.

CSS 507 Software Modeling Techniques (2) Provides the concepts and skills needed to use modeling in software analysis and design to foster understanding and communications of a problem and its potential solutions. Includes the creation of modeling artifacts for projects by hand and using CASE tools. Prerequisite: CSS 506.

CSS 508 Software Testing and Quality (2) Reviews approaches, concepts, and techniques used to validate and verify software and methods used to improve software processes. Students reflect on the applicability of software engineering and computer science methods. Prerequisite: CSS 507.

CSS 514 Security, Policy, Ethics, and the Legal Environment (2) Addresses ethical, legal, and policy frameworks within which information assurance and secure development lifecycle professionals must practice. Covers ethical, moral, legal and policy issues related to computers and telecommunications systems, such as how they impact privacy, fair information practices, equity, content control, and freedom of electronic speech.

CSS 517 Information Assurance and the Secure Development Lifecycle (5) Covers the foundations of Information Assurance (IA) and the Secure Development Lifecycle (SDL) needed to understand and apply best practices for development and on-going support of secure software systems in organizations. Uses workshops and applied project to practice methods and create artifacts important to IA principles.

CSS 519 Incident Response and Recovery (5) Explores management of response to security incidents including identification, examination, and integration of diverse crisis and emergency management, disaster recovery, and organizational continuity management issues. Also covers incident tracking, patch management, and corrective responses to internal and external stakeholders. Prerequisite: CSS 517.

CSS 527 Cryptography and Data Assurance (5) Explores symmetric and asymmetric cryptography, key management, and encryption algorithms such as DES, AES, RSA, and PGP. Discusses OSI, SSL, and VPN including how to use protocols, hashing, digital signatures, and certificates and certificate authorities. Covers policies, procedures, and methods for the proper use of cryptography in secure systems.

CSS 533 Distributed Computing (5) Builds on knowledge of advanced programming methodologies in distributed computing. Topics include message passing, indirect communication, remote method invocation, distributed objects, multi-tier server-side programming, peer-to-peer systems, distributed synchronization, distributed check-pointing, and replica management.

CSS 534 Parallel Programming in Grid and Cloud (5) Exploration of theoretical programming methodology and practical middleware design used for parallel programming in grid and cloud systems. Uses different programming models, parallelizing patterns, and middleware systems for designing application-specific fault-tolerant parallel software.

CSS 543 Advanced Programming Methodologies (5) Builds on knowledge of data structures and operating systems, introducing thread based and component based multi-tier programming. Reviews synchronization mechanisms and design/implementation of concurrent applications, discusses language/system independent software resuse,
CSS 545 Mobile Computing (5) Covers concepts related to systems once can build located at the intersections of pocket size computing devices; location aware technologies; mobile web services; and integrated sensors such as touch- and gesture-based UIs. Uses programming projects to explore the concepts and application in each area, and enable students to define a final project to combine and intersect the above areas.

CSS 548 Introduction to Compilers (5) Zander Introduces the structures and organization of programming languages; fundamentals of translation; regular expressions and context-free grammars; syntax lexical analysis, symbol tables, semantics and parsing, code generation; translation techniques such as LR, LL, and recursive descent. Offered: A.

CSS 549 Algorithm Design and Analysis (5) Covers fundamental techniques for algorithm design and analysis, such as computational complexity, greedy algorithms, divide-and-conquer algorithms, dynamic programming, graph algorithms, randomized algorithms, and computational intractability.

CSS 552 Topics in Rendering (5) Sung Studies core algorithms and technologies in synthesizing high quality images, including: camera models, 3D viewing, visibility sampling and approximation, light source models, material property approximation, illumination models, human vision system, and texture synthesis. Prerequisite: CSS 451. Offered: W.

CSS 553 Software Architecture (5) Studies the concepts, representations techniques, development methods, and tools for structuring software systems. Topics include domain-specific software architectures, architecture description languages, architectural styles, product line architectures, and standards. Combines hands-on experience designing software with an understanding of recent developments in the field.

CSS 555 Evaluating Software Design (5) Studies best software engineering practices and methods used in prescriptive and agile approaches to create and evaluate software design from an quality principled point-of-view. Considers design from quality dimensions such as performance, scalability, maintainability, usability, and security.

CSS 565 Research Methods in Software Development (5) In-depth study of research design and data analysis techniques for computing-related research activities. Students prepare a research proposal; examine experimental, quasi-experimental, and qualitative design strategies; perform meta-analytic research, define and collect appropriate software metrics; and perform appropriate advanced statistical analyses.

CSS 572 Evidence-Based Design (5) Provides a foundation in evidence-based user-centered design theory, methods, and practices for creating innovative software-enabled products.

CSS 577 Secure Software Development (5) Examines secure design and secure coding principles, practices, and methods including least privilege, threat modeling, and static analysis. Covers common vulnerabilities such as buffer overruns, integer overflows, injection attacks, cross-site scripting, and weak error handling in detail.

CSS 581 Machine Learning (5) Theory and practical use of machine learning techniques, such as decision trees, logistic regression, discriminant analysis, neural networks, naive Bayes, k-nearest neighbor, support vector machines, collaborative filtering, clustering, and ensembles. Emphasizes hands-on experience with real-world datasets, combined with several programming projects.

CSS 583 Knowledge Management Systems (5) Explores contemporary theoretical and practical implications of how to create and manage knowledge as acquired using technology. Uses different strategies such as XML, RDF, RDFS, and other approaches to provide methods and structures to organize and reference data for use within a variety of knowledge domains.

CSS 587 Advanced Topics in Computer Vision (5) Covers advanced topics in computer vision. Includes image and video databases, object recognition, video processing, scene reconstruction, and robot vision. Students implement projects on current topics in computer vision research.

CSS 590 Special Topics in Computing (5, max. 15) Special topics in computer science and software engineering. Prerequisite: permission of instructor.

CSS 593 Cyber Security Engineering Capstone (5) Students apply their knowledge and skills related to information assurance (IA) and cyber security to capstone projects sourced from work, research, class activities, or the community. Students present a portfolio that justifies how their work meets best IA and cyber security practices. Prerequisite: CSS 519; CSS 577; CSS 578.

CSS 595 Capstone Project I (5) First of the two-quarter capstone project sequence. Prerequisite: permission of instructor.

CSS 596 Capstone Project II (5) Second of the two-quarter capstone project sequence. Prerequisite: minimum grade of 2.7 in CSS 595; permission of instructor.

CSS 600 Independent Study or Research (1-5, max. 6) Independent study or research on computing topics conducted under the direction of one or more instructors. Offered: AWSpS.

CSS 601 INTERNSHIP (1-5, max. 10) Graduate internship under the supervision of a CSS faculty member.

CSS 700 Master's Thesis (*)

Computing and Software Systems Skills

CSSSKL 161 Fundamental Programming Skills (1) Strengthens computer programming and problem-solving skills through critical thinking and programming practice. Co-requisite: CSS 161. Credit/no credit only.

CSSSKL 162 Programming Methodology Skills (1) QSR Strengthens computer programming and problem-solving skills through critical thinking and programming practice. Prerequisite: minimum grade of 2.7 in CSS 161; co-requisite: CSS 162. Credit/no credit only.

CSSSKL 509 Technical Writing Skills (2, max. 6) Focuses on critical technical writing skills including formulating arguments and technical use and portrayal of data in reports and oral presentations. Credit/no credit only.

CSSSKL 510 Scientific Writing (1, max. 4) Explores how to locate, analyze, and synthesize professional literature on a topic and how to assemble the resources necessary to write an review of that literature. Focuses on organization of information, writing critique process, and presentation skills for verbal defense.

Science and Technology Mathematics

STMATH 124 CALCULUS I: ORIGINS AND EARLY DEVELOPMENTS (5) NW, QSR Develops modern calculus by investigating the questions, problems, and ideas that motivated its discovery and practice. Studies the real number system and functions defined on it, focusing on limits, area
and tangent calculations, properties and applications of the derivative, and the notion of continuity. Emphasizes problem-solving and mathematical thinking. Prerequisite: either a minimum grade of 2.5 in MATH 123, sufficient score on approved mathematics assessment test, or a minimum score of 2 on either the AB or BC AP Calculus test.

STMATH 125 CALCULUS II: FOUNDATIONS AND THE EMERGENCE OF MODERN ANALYSIS (5) NW, QSR Focuses on the historical emergence of modern calculus, the Fundamental Theorem, area, volume, and area length calculations, properties and applications of the integral, infinite series, Taylor and Fourier expansions, and the Weierstrass definition of limit. Emphasizes problem-solving and mathematical thinking. Prerequisite: minimum grade of 2.0 in STMATH 124, score of 3 on AP MAB or AP MBC exams.

STMATH 126 CALCULUS WITH ANALYTIC GEOMETRY III (5) NW Third quarter in calculus sequence. Introduction to Taylor polynomials and Taylor series, vector geometry in three dimensions, introduction to multivariable differential calculus, double integrals in Cartesian and polar coordinates. Prerequisite: either 2.0 in MATH 125, 2.0 in MATH 145, 2.0 in MATH 146, 2.0 in STMATH 125, score of 5 on AB advanced placement test, or score of 4 on BC advanced placement test. Offered: AWSp.

STMATH 300 Foundations of Modern Math (5) QSR Introduces students to mathematical argument and to reading and writing proofs. Develops elementary set theory, examples of relations, functions and operations on functions, the principle of induction, counting techniques, elementary number theory, and combinatorics. Places strong emphasis on methods and practice of problem solving. Prerequisite: minimum grade of 2.0 in B CUSP 125.

STMATH 307 Introduction to Differential Equations (5) NW Introduces ordinary differential equations. Includes first-and second-order equations and Laplace transform. Prerequisite: 2.0 in B CUSP 125.

STMATH 308 Matrix Algebra with Applications (5) NW Introduces linear algebra, including systems of linear equations, Gaussian elimination, matrices and matrix algebra, vector spaces, subspaces of Euclidean space, linear independence, bases and dimension, orthogonality, eigenvalues, and eigenvectors. Applications include data fitting and the method of least squares. Equivalent to MATH 308. Prerequisite: minimum grade of 2.0 in B CUSP 124.

STMATH 310 Mathematical Game Theory (5) Covers mathematical aspects of Game Theory, including symmetric and asymmetric games, zero-sum and non-zero-sum games, mixed and pure strategies, equilibria, and strategic moves. Examines examples from several disciplines including anthropology, philosophy, business, social psychology, and biology. Prerequisite: B CUSP 124.

STMATH 324 Multivariable Calculus (5) Introduction to the concepts and computation techniques of multivariable calculus, including double and triple integrals, the chain rule, vector fields, parametric curves and surfaces, line integrals, surface integrals, Green's Theorem, Stoke's Theorem, and the Divergence Theorem. Prerequisite: minimum grade of 2.0 in B CUSP 126.

STMATH 341 Introduction to Statistical Inference (5) QSR Stochastic concepts including probabilistic underpinnings of statistics, measures of central tendency, variability, correlation, distributions, sampling, and simulation. Exploratory data analysis including experiments, surveys, measures of association and inferential statistics. Prerequisite: minimum grade of 2.0 in STMATH 124 or MATH 124.

STMATH 350 Applied Number Theory and Cryptography (5) Introduces number theory, including divisibility, primes, the Euclidean algorithm, modular arithmetic, Fermat's Little Theorem, and the fast power method. Emphasizes applications in cryptography, including Diffie-Hellman key exchange, public key cryptography, the ElGamal and RSA cryptosystems, and elementary elliptic curve techniques. Prerequisite: minimum grade of 2.0 in STMATH 308.

STMATH 381 Discrete Mathematical Modeling (5) NW, QSR Focuses on mathematical modeling, with an emphasis on discrete mathematics, including applications in computer science, biology, and management science. Prerequisite: minimum grade of 2.0 in STMATH 308.

STMATH 390 Probability and Statistics in Engineering (5) Covers concepts of probability and statistics; conditional probability, independence, random variable, and distribution functions; descriptive statistics, transformations, sampling errors, confidence intervals, least squares, and maximum likelihood; and exploratory data analysis and interactive computing. Prerequisite: STMATH 324.

STMATH 402 Abstract Algebra I (5) Introduction to group theory. Emphasizes examples, including cyclic, dihedral, and symmetric groups. Theoretical concepts include: cosets and Lagrange's theorem; direct products; homomorphisms, normal subgroups, quotient groups, and the fundamental isomorphism theorems; orders and Cauchy's theorem; and the structure of finitely-generated abelian groups. Prerequisite: minimum grade of 2.0 in STMATH 300.

STMATH 403 Abstract Algebra II (5) QSR Introduction to the theory of rings and fields, including ideals, homomorphisms, quotient rings, integral domains and their fields of fractions, polynomial rings, field extensions, vector spaces, geometric constructions via straight-edge and compass, the classification of finite fields, unique factorization domains, and Euclidean domains. Prerequisite: minimum grade of 2.0 in STMATH 402.

STMATH 420 History of Mathematics (5) Survey of the history of mathematics from its earliest beginnings, through the emergence of calculus, and into the early 20th century. Prerequisite: minimum grade of 2.0 in either B CUSP 124 or MATH 124.

STMATH 424 Real Analysis I (5) Introduction to real analysis: the real number system, metric spaces, the topology of Euclidean space, the Heine-Borel Theorem, sequences, Cauchy sequences, series and tests for convergence, continuous functions, the intermediate and extreme value theorems, differentiability, the mean value theorem, power series, and Taylor's Theorem. Prerequisite: minimum grade of 2.0 in STMATH 300.

STMATH 425 Real Analysis II (5) The Riemann-Stieljes integral and the Fundamental Theorem of Calculus. Sequences and series of functions, uniform convergence and its relationship to continuity, differentiation, and integration, the Stone-Weierstrass Theorem. Continuity and differentiability of functions of several variables, the Inverse and Implicit Function Theorems, and Rank Theorem. Prerequisite: minimum grade of 2.0 in STMATH 424.

STMATH 465 Fostering Algebraic Reasoning (5) NW, QSR Focuses on methods of teaching algebra from a developmental perspective, including research-based methods for developing students' algebraic thinking and structure and processes used in algebra. Prerequisite: either B CUSP 125, STMATH 125, or MATH 125. Offered jointly with B EDUC 465.

STMATH 466 Fostering Geometric Thinking (5) NW, QSR Focuses on methods of teaching geometry from a developmental perspective, including research-based methods for developing students' geometric thinking and structure and processes used in geometry including proof. Prerequisite: either B CUSP 125, STMATH 125, or MATH 125. Offered jointly with B EDUC 466.

STMATH 467 Fostering Statistical Thinking, Data, and Graphical
Analysis (5) NW, QSR Focuses on methods of teaching data and graphical analysis and statistical thinking from a developmental perspective, including how to foster secondary students' statistical thinking, and using technological tools to teach key concepts in secondary mathematics using big data sets, graphical analysis, and dynamic visualization. Prerequisite: either B CUSP 125, STMATH 125, or MATH 125. Offered jointly with B EDUC 467.

STMATH 493 Special Topics in Mathematics (1-5, max. 15) Covers special topics in advanced mathematics in a classroom setting not currently taught in the mathematics curriculum. Prerequisite: minimum grade of 2.0 in either STMATH 300 or MATH 300.

STMATH 498 Independent Study in Mathematics (1-5, max. 15) Readings course covering special topics in mathematics agreed upon by student and faculty member.

STMATH 499 Undergraduate Research in Mathematics (1-5, max. 15) Undergraduate research project agreed upon by the student and faculty member.
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XI. Academic Calendar

The academic calendars obtain important dates regarding registration, adding & dropping classes, fee deadlines and more. Online calendars can be found at: http://www.uwb.edu.